CLASS B

App. F. IX—4 1958. File No. PWD 52 TBE 58

(TBE

Previous References. Serial Nos.

P 160

Later References.

PWD 56 ETB60

G.

MYSORE GOVERNMENT SECRETARIAT

Serial Nos.

Part B for

SUBJECT

Estimate for the repairs to the stop-logs gates and Inlet gates at T.B. Dam left Bank Munirabad.

WD 04708—GPB—1,00,000—17-11-59.

Issued in PWD 52 TBE 58 dated 18th June 60

The C.E. HEP

The A.G. Mysore

Supt.
Electrical Branch

Notes pages 27
Correspondences pages 159
B
B Class
For/Not for Sale
To be destroyed
B. N. Nanjundaiah
for Under Secretary to Government.

16

Pole 3216

M. G. S. APP. F. III—1]

MYSORE GOVERNMENT SECRETARIAT

(Irrl.)

NOTES.

File No. PWD 52 TBD 58

FILE HEADING.

Repairs to the Stop logs Gates and Sluice Gates at Tungabhadra Dam Left Bank, Munirabad

FROM

The Chief Engineer, HCP.

No. G.768-70 Dated 16/8/58 Received 20/8/58.

Diary No. 10991 / 10989 Enclos. Spare copies Serial No.

BRIEF ABSTRACT OF LETTER

Forwards for sanction a Govt. an estimate for Rs. 1,98,000 for the above works.

NOTES AND ORDERS.

C.E.P.Q. The Exe. also requests for approval to employ six divers on daily wages of Rs. 10/- per head & the costs proposed to be met out of the provision made in the above estimate.

2. As no amount has been provided for in the Main Project estimate sanctioned by the erstwhile Hyderabad Govt the Exe. proposes to

NOTES—First Sheet.

WD 05451—GPB—25,000—7-10-56

meet its cost from the Works estimate to be prepared for the project for the first and second stages. The cost is proposed to be met out of the budget provision of Rs. 55 lakhs.

3. Submitted for orders.

29/8 29/8 29/8

4) Both the proposals of C.E. H.C.P. may be sanctioned exclusive financial concurrence

D/s. P.W.D.) Munaf

5) For Concurrence

F.D.)

dy
D. S. RAGHAVENDRACHAR.
Dy Secy., P. W. D.

6.9.58

A 9/9 self

FINANCE DEPARTMENT
No. 2509
9-SEP 1958
GOVERNMENT OF MYSORE

6) F.D agrees. But we would like to know who are responsible for this work and how far their personal responsibility can be fixed for the bad work.

A

SECRETARY TO GOVERNMENT
NO
22 SEP 1958
PUBLIC WORKS & ELEC. DEPT.

P.W.D)

19/9

N. Veeraraj Urs
Deputy Secy. Finance Dept.

W.R. to P.W.D Dt 20.9.58

7) For approval. Ref. 'A' above it may be stated that the work was done by a committee of former Hyderabad State and it may

Mysore Government
Secretariat

Repairs to Stop log gates and 3 inlet gates of T.B. Dam Left Bank

File No. of 195 [App. F. III 2

13589.

Serial No.

not be provided by us. responsibility at this stage. However, C.E. Hyd will be asked about this.

(Illegible)

D. K. SRINIVASACHAR
Secy. P. W. & Elec. Depts

8) 24/9

SECRETARY TO GOVERNMENT
No EG 3070
22 SEP 1958
PUBLIC WORKS & ELEC. DEPTT.

SECRETARY TO GOVERNMENT
No .....
24 SEP 1958
PUBLIC WORKS & ELEC. DEPTT.

OFFICE OF THE MINISTER FOR PUBLIC WORKS
No. 1472
22 SEP 1958
BANGALORE

25/9

25/9

Letter No. Q-934-36 dated the 18th September 1958 from the Chief Engineer, H.E.P.

Requests sanction of Govt. for the purchase of 2 sets of diving apparatus at a total cost of Rs 20,000/- & to enhance the provision of Rs 5000/- to Rs 20000/-

9) It was suggested by the C.E. H.E.P. the provision of Rs 5000/- is revised to Rs. 20000/-, the total of the estimate thus Rs: 1,98,000/- to Rs 2,13,000/- will have to get altered & submitted for orders.

25/9

10) As the request of the C.E., H.E.P. is ~~declined~~ in pursuance of the quotation

Note.—Contn. Sheet

4

File No. of 195 .

Mysore Government Secretariat

Serial No. 1/3

for the supply of the diving kit, received from ~~them~~ M/s Burn & co, the same may be approved in consultation with F.D.

(11) Sanction is also required on the proposal of CE, W&P to entertain six divers at ~~Rs~~ ~~Cobbing~~ daily wages of Rs 4/- per head as it is reported that the divers are demanding so much. It is proposed by him to meet the cost in this behalf out of the estimated amount, which is under sanction - 'A' above.

page 9 ante.

(12) Orders sanctioned vide para 6-8 ante, have not ~~yet~~ been issued, since proposal for revising the estimate have ~~been~~ since been received by the ~~CE~~, W&P.

Rec 2919

D/S. PWD.) 27/9

13) ~~For~~ Concurrence

F.A.)

14) F.A agrees 16/10

P.W.D) WORKS P.W.D 16-10-58

15) For approval

Hon'ble P.W.D.E) 17/10

D. K. SRINIVASACHAR
Secy. P. W. & Elec. Depts.

16) Hon'ble 31/10 53/10

SECRETARIAT 31 OCT 1958 PUBLIC WORKS & ELEC. DEPTS.

2778

ES-335 17 OCT 1958 PUBLIC WORKS & ELEC. DEPTS.

DEPUTY SECRETARY TO GOVT. 10 OCT 1958 926.

OFFICE OF THE MINISTER FOR PUBLIC WORKS FINANCE DEPTT. 17 OCT 1958 1880

WD 0174 GPB PZS 500,000 28-10-57

Repairs to Stop Logs. 5

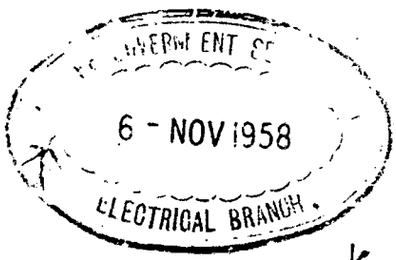
13589

18) A draft G.O. setup for approval

5/11

19) Issue

17/11



20) For communication

Financial Branch

Again after

issue

8/11/58

17/11

21) Tel: Com: No. 14153

12/11

12/11 23) Issued

13/11/58

22) Issue

12/11/58

Issued G.O. PWD 52 TOE 58 8/14-11-56

24) A draft letter to the GS.

HCPs setup for approval

as per paras 6, 7 & 8.

17/11

25) Issue

18/11

Issued 19/11/58

6 Remarks to Stop for trains
Q. T. D. Project (Imp. Loan)

362

Letter No. G-1221 from the Chief Engineer, HCP.

Requests to address the G.O.G. for the release of foreign exchange.

26) Draft & pair of a letter to the G.O.G. are putup for approval.

27) Seen & submit

19/11 19/11.

Issued PWD 52 TRE 58 dt 19/11/58

28) Issued & putup.

29) Secy P.W.D. for perusal

19/11 30) F.D. may see 19/11

F.D.)

29/11 F.D. Secy P.W.D 26/11

No 3705

31) Seen and returned to P.W.D

29/12 30 3/1

32) Sept US(C)

3) 8/1 DS(WRL) D.S. F.D

ver to PWD dt 8-1-59

E538 88 1956 Revised Loan from IBRD

DEPUTY SECRETARY TO GOVT. FINANCE DEPARTMENT 208

FINANCE DEPARTMENT No. 3705-WRL 24 DEC 1958 GOVERNMENT OF MYSORE

SECRETARIAT No. 91 JAN 1959 BUDGET BRANCH

10 JAN 1959 ES 133 GPT

Resources Section (foreign exchange)

26/12 Red. Pro. does not concern him in any manner at all. Hence it is F.D. strictly speaking. If they suggest Conference with PC may be held.

18/6.

GOVERNMENT OF MYSORE.

Telephone No.
Telegraphic Address: "GOMED"
In Reply Refer to
No. 4/10/9/9/1320-21
Enclo.
Codes Used:
BENTLEY'S LIEBER'S
A. B. C. 6th EDITION
BUSINESS TELEGRAPH CODE

OFFICE OF THE
CHIEF ENGINEER, HYDRO-ELECTRIC
CONSTRUCTION PROJECTS,
POST BAG No. 60,
RACE COURSE CROSS ROAD,
Bangalore-1, 4th December 1958.
(Mysore, S. India)

MYSORE GOVERNMENT SECRETARIAT
NO. ES
- 1 DEC 1958
PUBLIC WORKS BRANCH

The Secretary to Government,
Public Works and Electrical Department,
Bangalore.

17158
4 - DEC 1958
ELECTRICAL BRANCH

S i r,

Re: Tungabhadra Hydro-Electric Project, Left Bank, Munirabad - Loan of Diving Suits from Naval Headquarters.

--

With reference to your Memo No. PWD 52 TBE 58 dated the 31st October 1958 forwarding a copy of D.O.letter No.25(16) SOIII/D(N-1) dated the 25th October 1958 from the Deputy Secretary to the Government of India, Ministry of Defence, New Delhi addressed to you, I write to state as follows:-

1) The Government of India may kindly be requested to spare 2 diving suits and a diving pump on hire system for a period of three months in the first instance. The Department will meet the hire charges at the standard rates prescribed by the Government of India.

2) In view of the complexity involved in the operation, it is desirable to utilise the services of a Naval Officer who is experienced in such works.

I, therefore, request that the Central Government may also be kindly requested to spare the services of an experienced Naval Officer for a period of three months in the first instance.

Cost will be met out of the sanctioned Estimate amounting to Rs.2.13 lakhs in G.O. No. PWD 52 TBE 58 dt. 7/14. Nov. 1958.

Yours faithfully,

H Narayanadevaru 3/12
Chief Engineer, H.C.P.

34) The main file has been submd. to Secretary on 19/11/58.
5/12/58
35) 6/12

avu 6/12

36) A) The main file has not yet been received. Pls. for orders whether the G.O.I. Ministry of Defence may

PWD S2TBE58 (SUP)

4

We replied in terms of the 68's request
A draft letter is put up for approval
or other orders.

11/12 35 Secy (Rly. & E)

11/12

35/ P.A. Put this up immediately along with the
main file.

2/12

36/ This file was sent to FD on 23/12/58

27/12

37/ What happened to our reply
buying a suit or suits? Did we
not receive it? Ask PI to look up

29/12

ES 4444
29 DEC 1958
ES 4799
SECRETARY TO GOVT. PUBLIC WORKS & ELEC. DEPTT.

& VP
29/12

38/ The letter's proposal may be agreed to.
In concurrence

FD

29/12/58
D. K. SRINIVASACHAR
Secy. P. W. & Elec. Depts.

ES 3888
24.12.58 (FD)
3705 WI-1/58(2)
dt 5/1/59

3888)
S.S.
23/12

CW I

39/ The main file has since been returned to P.W.D., F.D. agrees to the proposal subject to the presumption that Government has not sanctioned the purchase of Diving suit/s.

P.W.D. 10-1-59

Deputy Secy. Finance Deptt.

FINANCE DEPARTMENT
No. 3788
29 DEC 1958
GOVERNMENT OF INDIA

30/12

SECRETARY TO GOVT.
12 JAN 1959
PUBLIC WORKS

40/ CW I Put up

CW I
15/1

Mysore Government Secretariat | File No. of 195 . | [App. F. III 2

Serial No.

4) Sanction has been separately accorded for purchase of diving suit at a cost of Rs 20,000/- (vide Govt. No. PWD 52 TBE 58 dated 8/11.11.58). But they cannot be got quickly enough for our needs. Hence purchase will be from foreign exchange allotted to Govt. Sanction has just been received to use these of foreign exchange. It may take some months before they are got and in the meantime, it is desirable that we have for our diving work available with us Defence Stores on loan and return them after use. The diving suit which we have got will be useful for the Cauvery Power Project work and for other works of a similar character where deep diving is necessary. In connection

FD)

5) Secretariat Note Sheet 13/1

DSFA) sent to PWD dt 16-1-59

Received 30 Jan 59 13/1

No. 184 WI

Note.—Contn. Sheet

10

File No. 52 TBES 59 of 195 .

Mysore Government
Secretariat

Serial No.

46) Draft

dn
14/1/59
— 17/1

47) Draft ffair of a letter to the C.E.D. already finalised are now for approval.
14/1 48) By Secy B.U.+E.) 19/1

49) for formal sanction issue in Secy P.W.D.) P.W.D. 22.1.59

50) 23/1

51) Issue 24/1

Issued 24.1.59

52) draft telegram to be sent up for approval as personally instructed by the Under Secretary.

53) Issue 5/2

5/2

Issued on 5/2/59

PLD 12/1

* Planning Section

DEPUTY SECRETARY P. W. D. GOVT. 19 Jan 59

SECRETARIAT ES-270

WD 04559—GPB—PZS—2.00.000—1958

Drawg suits for Tungabhadra Project

[App. F. III 2

Mysore Government Secretariat

File No. 52 TBE of 1958

Serial No.	
2609.	Letter No. 25(16) dated the 18th February 1959 from the Govt. of India, Ministry of Defence Request for some information.
	54) The conditions laid down by the Govt. of India on CFP:51 may perhaps be accepted & confirmed.
	55) 23/2/59 (W 23/2/59) By Secy D.of F.
	56) F.D. may see the letter of the G.O.9. at Page 51 and agree to the Conditions stipulated therein. F.D.) Dy. Transhumance Dy. Secy P.W.D. 23/2/59
	P.D.No. 730/W1. To W&S F.D. may agree in principle the conditions laid down in G.O.9's letter dated the 18th Feb. 1959. The P.W.D may, however, be requested to show this Dept, the details of item No (iii) of the letter, in due course.
	57) 3/3
	58) 3/3
	59) 4/3

DEPUTY SECRETARY P.W. DEPT. No ..... 25 FEB GOVERNMENT OF MYSORE

DEPUTY SECRETARY TO GOVT. FINANCE DEPARTMENT 1924

FINANCE DEPARTMENT No. 730 W1 25 FEB 1959

SECRETARY TO GOVERNMENT No ..... - 6 MAR 1959

W1 Supdt U.S.(W) D.S.(W)

U.O.A to P.W.D d. 5-3-59

R. A. NAIK, Dy. Secy., Finance Dept. (Works and Schemes).

Note.—Contn. Sheet.

Drop Suits for Tungabhadra Project.

12

File No. PWD 52 TBE 58 of 195.

Mysore Government Secretariat

Serial No. 3650

60) Issue as per note

6/3

ES.763

dy

6/3

Dy 9/3

ES.743

60T

61) A draft Telegram as per note proposed.

9/3 (Secy P.W.D.)

62) For perusal & approval

Dy 9/3

dy

Dy 9/3

Issued 9/3/59.

63) Issued & entries - reference para 60.

9/3 10/3/59.

64) (Secy P.W.D.)

Dy 11/3

65) For perusal & para 56 and 57.

Three deep bore accept the conditions stipulated by GOI in their letter at CF Page 51 are being accepted.

(Mr: PWD Secy)

dy

66) Issued

20/3

dy

21/3

20 MAR 1959

PUBLIC WORKS

WD 04700—GPB—PZS—8,00,000—1958

23/3

Serial No.

7315.

D.O. letter No. 1265 dated the 26th April 1959 from the Govt. of India

Requests that the Govt. of India may again be addressed.

67) A telegram has been issued to the Naval Headquarters on 25/3/59. Another telegram will be issued again on 28/3/59 if no reply is received by then.

3/27/7 68) Please indicate the present position.

(88) 9/5

69) The G.O.I. have agreed to spare the services of Naval divers. No further action is now necessary.

4/11/5

70) (88) 13/5

Sms A/

3/16/5

Letter No. F. 25(16)/58 dated the 4th June 1959 from the Govt. of India, Ministry of Defence.

Requests to be informed whether all the charges of the diving team will be met by the State Govt.

71) In this Govt.'s letter of 24/1/59, the Ministry of Defence, Govt. of India have been

C.F.P. 4/5

Serial No.

intimated that the Govt. of Mysore will meet the hire charges at the standard rates prescribed by the Govt. of India

72) Submitted for perusal & orders.

12/6

(SS) 12/6/59.

73) (Secretary)

74) In what case we can write to them accordingly. But we, however, have an idea of what works are going to be like

17/6

SECRETARIAT No. GS. 1855 15 JUN 1959 PUBLIC WORKS & ELEC. DEPTT.

75) A draft letter to the G.S.D. Ministry of Defence is putting for approval.

18/6

76) For perused before issue.

(SS) 19/6/59

(Secretary)

77) 20/6

ES 1967

25/6

78) Issue.

(SS) 23/6. Issued 24/6/59

WD 04559—GPB—PZS—2,00,000—1958

T-B2 Hydro Electric Project (Left Bank)

Mysore Government Secretariat | File No. of 195 | [App. F. III 2 | 15

Serial No.

7887
7966

Letter No. 558-59 dated the 30th June 1959 from the Chief Engineer, HECP.

Reports the action taken.

79) 29/8/59 HECP forwards a note on the action taken so far (CFP 75-77) and he proposes to place this at the evening meeting of the HECP Board. Submitted for perusal.

1/7/59

80) D.S.) (D2) 7/59

81)

4/7

DEPUTY SECRETARY'S OFFICE No. GOVERNMENT OF MYSORE

Recd on 15/7/59

D8. Letter No. 338 dated the 30th June 1959 from the Chief Engineer, HECP.

Forwards a report on the works carried out by the Naval Diving Team.

82) orders of the Secretary with reference to 'A' on last page, we may write to the Naval Headquarters thanking them for the assistance rendered.

Sd/- D.R.S.
2/7

[FP] 2-1

Note.—Contn. Sheet

Army team at Bommalapur

16 File No. of 195 . Mysore Government Secretariat

Serial No.

83) Draft letter to the Naval Headquarters is put up for approval. 805

16/7 84) Dy. Secy F&D

85) dis 21/7/59

Issued 28/7/59.

Letter No. G 767-68 dated the 5th August 1959 from the Chief Engineer, etc.

Requests sanction of Govt. for meeting the expenditure out of the relevant provisions in the estimate & to the action taken by him in having arranged for its payment of boarding & lodging charges

86) It is reported that a team of one officer & four divers arrived at Bommalapur on 16/5/59 & one more diver joined on 22/5/59. The total cost on account of boarding & lodging comes to Rs 680/-. As Govt. have already accepted to bear all the charges of the diving team, the charges are to be paid.

C.F. P 72

16/8

DEPUTY SECRETARY TO GOVERNMENT

WD 04559—GPB—PZS—2.00,000—1958

Diving Team for the Tungabhadra Project (Left Bank)

Mysore Government Secretariat

File No. of 195 . [App. F. III 2

Serial No.

9210.

87) For consurrence.

(88) 15/8/59.
F.D.) U.S., P.W.D.

88) F.D. has no objection we had already agreed in principle as at para 59 of our

Fwd.

28/8

Letter No. G. 827 dated the 20th August 1959 from the Chief Engineer, HCP.

Requests that the Govt. of India may be addressed for extending the period of deputation of the naval team for a further period of Seven Months i.e. July, August, September & October 1959.

89) F.D. have agreed for

Note.—Contn. Sheet

File No. SE TOE - of 195 .

Mysore Government Secretariat

Serial No.

meeting the catering Bill of Rs. 500/- Orders will now be issued. The drafts are therefore putup for approval.

29/8 MAP 29/8/59 90) For abbreviation note.

DS 31/8/59

91) Secy P.W.D) 2/9

92) Rup 7/9

93) Issue

Letter issued to Govt of India

94) For Communication of the Govt order.

Fin Depty) 10/9/59

10/9/59.

95) Cl- am no 12039 of 10-9-59

10-9-59 10-9-59

96) 11/9/59

97) Issue 11/9/59

DEPUTY SECRETARY No ... SEPTG... GOVERNMENT OF MYSORE

SECRETARIAT TO GOVERNMENT PUBLIC WORKS & ELEC. DEPTT. ES&SG 3 SEP 1959

WD 04700—GPB—PZS—8,00,000—1958

Mysore Government Secretariat

Tungabhadra Hydro-Electric Project - Driving Team.
File No. of 195 . [App. F. III 2

Serial No.	
10056	Letter G.917-20 dated the
10085	11th September 1959 from the
10879	Chief Engineer, HCP.
10881	Requests that the Govt.
	of India be addressed for
	Continuing the Driving
	"
	92) The Govt. of India
C.F.P'99	have been addressed only on the
	10th September 1959 and they
	will be reminded after a week.
	93)
3/15/9	17/9
Mel 16/9/59	
	94) A draft letter to the
	G.E.I in quintup for approval
	95) Issue
21/9	
Mel 21/9/59	
	Issued 22/9/59.
3rd	Letter No. G.1035 dated the
23/9	7th October 1959 from the Chief
	Engineer, HCP
	Requests to address the
	Ministry of Defence for the
	services of the Divers.

Note.--Contn. Sheet

2° File No. of 195 .

Mysore Government Secretariat

Serial No.

Letter No. G:037-3° dated the 7th October 1959 from the Secretary, M.E.G. requests to advise the Ministry of Defence for the training of the officers.

96) A draft letter to the Ministry of Defence, Govt. of India is put up for approval.

97) For approval before issue

98) Secy P. (W & E)

99) Issued

100) Issue.

Issued 16/10/59

Letter No. [illegible] dated the 19th October 1959

DEPUTY SECRETARY P. W. DEPTT. No ..... 9 - OCT GOVERNMENT OF MYSORE

SECRETARY TO GOVERNMENT 14 OCT 1959 PUBLIC WORKS & LABOUR

ES2848

Serial No.

11392 √ 11398

√ 11953

Letter No G 1133-35 dated the 23rd October 1959 from the Chief Engineer, HCP Requests for addressing the Govt of India.

CFP 113

101) The Govt of India have been addressed on 16/10/59 and a copy of this letter has been sent to the CE HCP for his information

23/10 16/10/59

102)

16/10

Sms A/

23/10

Letter No G 1200 dated the 12th November 1959 from the Chief Engineer, HCP. Requests to address the Govt of India for the early remittance.

CFP 113.

103) The Govt of India were addressed on 16/10/59 They will be reminded now. Draft again on a letter as before.

17/11

104) Issue

17/11

Issued 18/XI/59

Sms A/

18/11

File No. of 195

Mysore Government Secretariat

Serial No. 926.

Rec'd D.O. 1234 dated the 21st November 1959 from the Chief Engineer, HCP.

Requests that the Govt. of India's sanction may be accorded for deputation of two persons in the Naval Base, Cochin.

10a) Draft reply to the Govt. of India are put up for approval.

25/11

10b) Issue

26/11/59

Isud 26/XI/59

Govt. of India's letter dated the 22nd January 1960 from the Ministry of Defence, Govt. of India.

States that it will not be possible to spare the naval team earlier than the middle of March.

10c) Orders of the Secretary.

xxx Say that the service of the team will be needed and in any case leave after middle of March. If they cannot spare them earlier. Write letter.

Sd/- D.K.S.

25/1/60

SMS A 26/1 9/IX/60

WD 04700—GPB—PZS—8,00,000—1958

Mysore Government Secretariat

File No. of 195

[App. F. III 2 23

Serial No.	
	108) Adrapt letter to the Govt of India, Ministry of Defence requesting for approval.
	109) DS
	110) For perusal & signature of Secy (PWD)
	111) PA to put up fair draft
	112) Fair draft placed in the file
	113) Issued 1/2/60

I-524 PUBLIC WORKS & ELEC. DEPTT.

Note.—Contn. Sheet

Mysore Government Secretariat

Serial No.

Letter No. 175 dated the 11th March 1960 from the Under Secretary to Government PWD.

Requests that the Govt. of India may be informed to issue the usual Visa to a Member to the Govt. of India entering in Mysore.

115) Issued

Dated 22/3/60.

D.O. letter dt. 9th March 1960 from the Dy. Secy. Ministry of Defence states that the naval team will be deputed from time to time as per the orders of the Govt. of India.

116) Issued

Issued

Dated 24/3/60

Mysore Government Secretariat

PCODS&TBE 58
File No. of 195

[App. F. III 2

Serial No.

3606.

V 6175.

Letter No. 5081 dated the 17th March 1960 from the G.O.I. Ministry of Defence stating that the Divers course has been postponed from 16/3/60 to 4-4-60.

119) A copy could be forwarded to the Dy HCP for information.

120) Issue.

Issued

Dated 21.4.60

Letter No. C.168 dated the 5th May 1960 from the Chief Engineer, HCP.

"Principles for the purchase required by the C.E."

121) The Govt. of India, Ministry of Defence may be replied that these conditions stipulated for training are accepted. The establishment required as per CFP 153 is also for approval.

122) The proposals of CE, HCP may be approved as the GOI informed of the acceptance of the conditions put forth by them with the concurrence of FD.

FD.)

9/5/60.

Note.—Contn. Sheet

Mysore Government Secretariat

Serial No.

U.O. No. 1497/M. H.M.J. DEPARTMENT
Works and Schemes Branch I.

123) Finance Department agrees to H.M.J.D.'s., proposals subject to the following:-

(i) Project allowance to be given if the familes of the Officials selected for training continue to remain in the project area.

(ii) Messing and Lodging allowance as recommended by the naval authorities or as admissible under State Rules (and not in addition to), whichever are higher.

(iii) Half the daily allowance admissible for the duration of the course; as they will have to maintain the establishment at their present posting and will also need some pocket expenses.

(iv) The trainees will have to enter into an agreement with the Department that they will serve the department in the prescribed scales for a period of two years failing which they will agree to reimburse the Government the entire expenses which Government had to bear for their training and interest thereon at 5%.

(No con has been seen by Secy, FD.)

Under Secretary to Government
Finance Department.

P.W.D. Dept.,

124) The proposals of the CE, HCP with the modifications suggested by F.D. in para 123 may be approved.

125) For approval

25/5

25/5/60.

SECRETARIAT 21 MAY 1960 PUBLIC WORKS & ELEC.
DEPUTY SECRETARY P.W. DEPT No 471 26 1960 GOVERNMENT OF MYSORE

WD 04700—GPB—PZS—8.00.00—1958

Mysore Government Secretariat

P10D52TBE58

File No. of 195 .

[App. F. III 2

Serial No.

Ref: pages 151 c/f.

126) May be approved as amended by FD

BS 1/6

Secy) 126) GK 3/6

M (PWE)

127) Itself

9/6 HANUMANTHAPPA, P.W. & Electricity

128/GK 10/6

BS 10/6

11/6

129) Addl & Exp posts for approval.

GK 14/6

Issue + post up dft of letter to the Govt.

14/6/60

FOR COMMUNICATION OF THE GOVERNMENT ORDER (FINANCE DEPT.)

20/6

Superintendent, Electrical Section

H-mo-894 of 18-6-60

Agreed to in Para 123 above

18.6.60

20/6

21-6-60

ISSUED 21/6/60

Note.—Contn. Sheet

PWD 52 TBE 58

GOVERNMENT OF MYSORE.

Telephone No.
Telegraphic Address: "GOMED"
In Reply Refer to
No. G/1268-70
Enclo.
Codes Used:
BENTLEY'S LIEBER'S
A. B. C. 6th EDITION
BUSINESS TELEGRAPH CODE

OFFICE OF THE
CHIEF ENGINEER, HYDRO-ELECTRIC
CONSTRUCTION PROJECTS,
POST BAG NO. 60,
RACE COURSE CROSS ROAD,
Bangalore-1, 13TH AUGUST....1958.
(Mysore, S. India)

MYSORE GOVERNMENT SECRETARIAT
NO. 2
18 AUG 1958
PUBLIC WORKS BRANCH

66

The Secretary to Government,
Electrical Department,
Bangalore.

S i r,

MYSORE GOVERNMENT SECRETARIAT
10991
ELECTRICAL BRANCH

Subject: Repairs to the Stop Logs Gates and Inlet Gates at Tungabhadra Dam Left Bank, Munirabad.

I write to enclose herewith a short note on the stop-logs gates and the inlet gates in front of the power sluices on the left bank of Tungabhadra Dam, Munirabad for kind information of Government. This note was also circulated among the Members of the Hydro-Electric Construction Projects Board and the note was recorded in the Fourth Meeting of the Board held on 9th July 1958. The note gives in detail the condition of the gates, the embedded parts in which the gates have to move, the curtain wall in front of the dam etc., and the attempts made so far to attend to the defects noticed.

In connection with the repairs to the gates and the curtain wall, the following are the more important works to be attended to immediately:-

1) On the down stream side of the curtain wall, it is seen that the water is coming out at several points along the construction joints left during the construction of the curtain wall. In order to stop this water it is proposed to insert pipes at intervals along all these joints and grout the curtain wall under pressure through these pipes. After grouting, the whole surface will be gunnited.

2) The up-stream surface of the curtain wall will also be gunnited as and when the water level goes down.

3) The water is leaking at several points round the embedded parts of the main gate. To stop this leakage, it is proposed to drill 3 or 4 holes in each of the embedded

p.t.o.

part and do pressure grouting so that any cleavages between the embedded parts and the concrete are filled up.

4) Considerable difficulty is being experienced in freely operating the stop log gates in each opening. It is, therefore, proposed to manufacture a pilot frame and operate this frame in each of the opening. After the operation of the frame in the openings, the stop log gates will have to be suitably modified to suit to each vent.

5) The embedded parts for the main gate are pitted with the result that water is leaking between the rubber seals and the embedded parts. To prevent this rusting, it is proposed to weld stainless steel lining to the embedded part of the main gate groove and the seals will be suitably modified thereafter.

6) It is also seen that pieces of iron, coils of wire rope and other muck have collected just on the up-stream side of the stop log gates in the area between the stop log gates and the main gate and it is proposed to remove all these to enable easy operation of the gates.

7) Services of divers who have to clear the passage for the stop log gates to operate freely, remove debris and also to do underwater welding, cutting after detailed examination are necessary and are proposed to be employed.

The work of cement mortar grouting and gunniting is being done by the Executive Engineer, Civil, Hydro-Electric Construction Project, Munirabad. The repair works to the gates and other steel embedded parts etc., and modifying stop-log gates including manufacture and fixing of seals are being got done through the Tungabhadra Workshop.

The probable cost of attending to the above works has been worked out very approximately, as a correct

(Contd...P.3

assessment of the works to be done under water could not be made. The total cost of these works as could be assessed now works out to Rs.1,98,000/- and may require revision by the time the works are completed in the light of actual working conditions.

The leakage due to the present condition of the gates and the curtain wall is interfering with the progress of the construction of the main power house building and the machine foundations. As the construction of the power house is very important, repairs to the gates and the curtain wall have been put on hand to avoid any delay. The Tungabhadra Workshop authorities have also been requested to take up the rectification of these gates and replacement of the seals etc., on a rush basis.

Details of estimate amounting to Rs.1.98,000/- are enclosed herewith. The provision for this will be made in the revised estimate to be prepared for the Tungabhadra Project Left Bank, Munirabad - First and Second Stage.

I request you kindly to obtain and communicate sanction of Government to the estimate for Rs.1,98,000/- in the first instance and for the action taken by me in putting these works on hand and entrusting some of the works to Tungabhadra Workshop in view of urgency. The cost of this work will be met out of the lumpsum grant of Rs.55 lakhs for T.B.Dam Left Bank Work (Scheme in the II Five Year Plan).

Yours faithfully,

H.Narayanarao

Chief Engineer, H.C.P. 14/8

Audit Certificate

It is noted that Provision for this work will be made in the revised estimate to be Prepared for T.B.H.E.P Left Bank and will be met out of the Lump Sum grant of Rs 55.00 Lakhs Pending allotment to Several works including this work Specifically."

T.M. Periyaswamy

Accounts Officer,

Hydro-Electric Construction Projects,

BANGALORE-1.

TUNGABHADRA DAM (LEFT BANK) MUNIRABAD

A short note on the Stop Logs and Inlet Gates.

On the Left Bank of Tungabhadra Dam eight outlets (2 per machine) of 10' x 13'-2" are provided for supplying water to the Generating Units. These outlets are of R.C.C. construction and are provided with sluice gates and in front of these sluice gates, provision is made for putting in stop log gates. The main gates are imported from Germany but the embeded parts and the stop log gates appear to be of local manufacture.

When the works were taken over by the Government Electricity Department, six of the main gates had been assembled and lowered and all the stop-log gates were also in position. Heavy lekages were observed from these gates. The R.C..C. curtain wall in front of the main gates was also leaking at several points on the downstream side. Masonry walls had been constructed in sluice vents on the down stream side of the main gates to collect the leakage water and drain it out into the irrigation canal.

Last season immediately the water level of the reservoir started to go down, attempts were made to overhaul these gates and remove the stop log gates. It was found that the stop-log gates could not be moved. The possible reasons for this trouble were investigated and it was found that the curtain wall was fouling these gates in a number of places and also the guides provided for the movement of stop log gates were not perfectly plumb. Possible reasons for this trouble may be the following:-

A

1) The R.C.C. curtain wall against which the stop log gates should slide may not be plumb and vertical. The bulges in the R.C.C. wall here and there (which may be due to bad workmanship) came in the way of the gates being moved up and down.

2) The gates were probably installed first and work around the gates proceeded later on so that the loose concrete, stone chips etc., might have collected all round the gates with the result that the gates got stuck up.

3) The steel guides and embedded parts which were aligned when the Dam works were in progress might have got out of alignment when the Dam came to its full height.

As the work of rectifying the gates was of an urgent nature, the Tungabhadra Board authorities were requested to deplete the reservoir as far as possible and the work was also simultaneously tackled with the help of divers whose services were borrowed from the Executive Engineer, No.2 Krishna Barrage Division, Vijayawada. With the help of these divers, it was possible to pull out all the stop log gates during last season. But in so doing, it became necessary to cut out the guides in a number of places and also to chip out a number of bulges in the curtain wall. As freshes arrived early before the reservoir level could go down, further work could not be continued last year.

Immediately the water level dropped down a little this season, the above work was resumed and it was found that the stop log gates had to be modified individually for each vent. The main gates also do not operate freely. Pieces of channel iron from the trash rack frames and other materials like coils of wire, rope etc., were found at the bottom of the reservoir fouling the gates and these had to be fished out. This work is still under progress.

A detailed examination of the trash rack frames, gates and the embedded parts was conducted with the help of Shri Sringachari, Executive Engineer, Workshops and Machines Division, Tungabhadra Dam, and the following defects were observed:-

1) The trash rack frame has been very badly fixed with cleats bent from plate iron and with just two bolts each. Hence, the complete frame requires looking into and most of the cleats will have to be changed and properly fixed either by rivetting or welding. The structure is also not rigidly fixed and further it is rusting rapidly.

...2/-

2. The screen walls are leaking badly and will have to be pressure grouted from both sides to prevent leaking. This has to be attended to early.

3. The guides and embeded parts of both the main and stop log gates have to be examined with suitable guages and rectified wherever necessary. The construction of the main gates is quite good and there is no defect in them. The trouble is only due to the embedded parts not having been fixed properly.

4. Reinforcements on the screen wall are exposed in a number of places and require protective covering immediately.

The above defects could be completely attended to if the reservoir could be depleted ro R.L.1560-75, cill of the turbine sluices. It was the opinion of the Tungabhadra Workshop authorities that the whole work could be completed in fortnight time after complete depletion.

On a detailed discussion with Sri. T.S. Murthy, Chief Engineer, Major Irrigation, North, regarding depletion of the reservoir, it is seen that with the arrangements made in the dam for discharge through under sluices, it would take nearly 8 to 10 months to deplete the reservoir to the cill level. Hence the question of depletion of the reservoir in order to attend to the above repairs in a most satisfactory manner is not practicable and therefore dropped. Practicable

Under the circumstances, attempts are being made to repair the gates, the embedded parts etc., under water with the help of the Tungabhadra Workshop authorities. Further action to be followed will depend on the result of these repairs. On a preliminary examination, the Tungabhadra Dam authorities have stated that the embedded parts now fixed for the main gates are only M.S. angle iron pieces which are corroded and they have promised to look into the feasibility of welding suitable stainless steel to the embedded parts and modify the gates suitable to get a proper water tight seal. The stop log gates which were also badly damaged when pulled out last season are being modified to provide on effective seal. It is also proposed to try pressure grouting for the curtaing wall to make the same as water tight as possible. The Chief Engineer, Major Irrigation, North, has agreed to try to do this. The Cementation Company of India Ltd., and Messrs. Gannon Dunkerly are also being consulted if they can suggest any method of grouting under water to prevent this leakage through the curtain wall. After the defects in the gates and the curtain wall are attended to, the trash rack frames will have to be properly fixed either by resorting to under water welding or some other method. The workshop authorities have also been requested to provide suitable frames to prevent entry of dislodged parts into the penstock through the vents provided in the dam for the movement of stop log gates.

Investigation has also been taken up to examine the possibility of introducing butterfly valves just before the machines. This will entail shifting of the machine centre line parallel to the axis of the dam by about 40' to 60' and may also put off the target date by 6 to 8 months.

The above facts are placed before the Committee for information of members and further report will be submitted after the results of the examination of the Tungabhadra Workshop authorities if the gates are completed and the possibility of introducing the butterfly valve is completely studied.

"COPY"

Sd/- M.N. Viswanatha Setty,
Secretary,
Hydro Electric Construction Projects Board.

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for CHIEF ENGINEER, H.C.P. 14.8.58

ESTIMATE FOR STOPLOG, INTAKE GATE AND TRASH RACK

Sl. No.	Particulars.	For Six Vents. Qnty.	Rate.	Amount.	For 2 Vents. Amount
1	2	3	4	5	6
	INTAKE GATES.				
1.	One set of seals with bottom top and sides for 6 vents.	6	650	3900.00	1300.00
2.	Rivetting, concreting cleaning and painting of Intake gates and embedded parts. (materials only)	6	700	4200.00	1400.00
3.	Labour charges for concreting rivetting and painting of intake gates.	6	600	3600.00	1200.00
4.	Fixing the Stainless steel plates and adjusting the rollers guides (work to be doneby T.B. Dam workshop)	6	3000	18000.00	6000.00
			Total	29700.00	9900.00
	STOPLOG GATES.				
5.	Modification of Stoplog gates including renewal of set of seals (materials & labour).	4	2500	10000.00	2500.00
6.	Lowering the Stoplog gates by stages, for lifting of intake gates for labour and missillaneous materials (This includes the lowering and lifting of stoplog gates for Grouting the embedded parts and again for providing the stainless steel plate lining for the intakes.	6	2000	12000.00	4000.00
7.	Manufacture of stoplog pilot frame $\frac{3}{4}$T		L.S.	1000.00	
8.	Trial of the pilot frame each vent for labour charges and missillaneous materials	6	300	1800.00	600.00
9.	(a) Wire rope 7/8" for stoplog frame work & stoplogs for replacement.	200ft.		1000.00	
	(b) Wire rope $\frac{1}{2}$" for flap valve	100ft.		500.00	
	(c) Bulldog clips and other misscellaneous materials for steel rope for lifting arrangement.		L.S.	1000.00	334.00
			Total	27300.00	7434.00
	DIVERS EXPENDITURE.				
10.	(a) Diver days for rectification of stop-log vent which includes the following chipping the curtain wall cutting the protruding reinforcements. Checking the railguides and welding when ever necessary and removal of debris 120 days for each vent including overhauling.	720 days.	15.Rs per day.	10800.00	3600.00
	(b) Hire charges for the diving equipment like suit etc.	L.S.		2000.00	667.00
	(c) Transport charges for the divers and equipment.	L.S.		1000.00	334.00

.....2/-

3	4	5	6
(e) Insurance charges for a technician for diving.	4 months each.	250/-	1000.00	334.00
(f) Purchase of one diving suit with the accessories.	L.S.		3000.00	—
		Total	22800.00	5935.00

TRASH RACKS

11. (a) Cost of rectification for each vent grids for welding angle and plates for 6 vents.	54	100	5400.00	1800.00
(b) Lowering and fixing the frames into position by sending the divers.	54	150	8100.00	2700.00
(c) Under water welding of the missing members and other loose members in the trash rack frame work including the cost of materials and labour	30	600 per operating	18000.00	6000.00
(d) Painting the trash rackframe work including the cost of paint and labour.		100	3000.00	1000.00
		Total	34500.00	11500.00
12. Erection of holets (material and labour)	6	300	1800.00	600.00
13. Laying of the Pipe line for working the air compressor for grunniting, for diesel oil etc. including labour charges for 6 months.	6	1500 months per month.	9000.00	3000.00
14. Estimate for grunniting and grouting etc. as already submitted by Executive Engineer, Civil.			30000.00	

A B S T R A C T

	FOR SIX YEARS	FOR TWO YEARS.
1. Intake Gates	29,700.00	9,900.00
2. Stoplog Gates	27,300.00	7,434.00
3. Diver's Expenditure	22,800.00	5,935.00
4. Trash Racks.	34,500.00	11,500.00
5. Erection of holets	1,800.00	600.00
6. Laying the pipe line and running the air compressure.	9,000.00	3,000.00
Total	1,25,100.00	38,369.00
Uniforseen works 2½	3,127.75	959.25
Grand Total	1,28,227.25 or 1,28,228.	39,329.25 or 39,328

Electrical and Mechanical works for 6 Vents.

1,25,000.00
3,000.00

1,57,356.00

Civil Works.

3,00,000.00

-3/-.....

8)

Total Rs. ~~1,97,556.00~~ 2,12,556
Other unforseen works. 444.00 444
Grand Total Rs 1,98,000/- 2,13,000

Sd/-
EXECUTIVE ENGINEER, ELECTRICAL,
MUNIRABAD.

14.8.58
for CHIEF ENGINEER, H.C.P.

GOVERNMENT OF MYSORE.

9)

Telephone No.
Telegraphic Address: "GOMED"
In Reply Refer to
No. C/1223-75
Enclo.

Codes Used:
BENTLEY'S LIEBER'S
A. B. C. 6th EDITION
BUSINESS TELEGRAPH CODE

MYSORE GOVERNMENT SECRETARIAT
NO.
18 AUG 1958
PUBLIC WORKS BRANCH

OFFICE OF THE
CHIEF ENGINEER, HYDRO-ELECTRIC
CONSTRUCTION PROJECTS,
POST BAG NO. 60,
RACE COURSE CROSS ROAD,
Bangalore-1, 16th August, 1958.
(Mysore, S. India)

The Secretary to Government,
Electrical Department,
BANGALORE.

MYSORE GOVERNMENT SECRETARIAT
10989
20 AUG 1958
ELECTRICAL BRANCH.

roqal/ele.

Sir,

Subject: Tungabhadra Hydro ~~Electric~~ Project, Left Bank, Munirabad - Repairs to Gates.

I write to invite your kind reference to this office letter No.768-70 dated 16.8.58 forwarding an estimate for Rs.1,98,000/- and a report on the details of work to be done. In connection with the removal of debris near the gates and repairs to the embedded parts and stop log gates etc., it is found necessary to employ half a dozen divers who are specialised in working under water at a depth of about 60 to 70 feet. It has been found very difficult to obtain the services of suitable divers. Attempts are being made to get at least a few divers from several sources and it is seen that some of these are ~~xxx~~ demanding wages of Rs.10/- for working for about three hours under water. As the job is of a very hazardous nature, the wages that the divers are demanding appears to be reasonable. I request you kindly to obtain and communicate sanction of Government to the employment of about six divers at daily wages of Rs.10/- per head. The cost on this account will be met under the provision made in the estimate referred to above.

Yours faithfully,

H Narayanarao

Chief Engineer, H.C.P. 16/8

The main file bearing
No. PWD 52 TBE 58
has been called to
D/S. on 30/8/58. Its
receipt will be awaited.

22/9

22/9/58.

22/9

23

The file may be
withdrawn from the
P.O. and this
case be worked up to
avoid duplicacy of
work

23/9

8/9/58
Minister
on 22/9
(3070)

23/9

PWD 52 TBE 58

10/

GOVERNMENT OF MYSORE.

Telephone No.
Telegraphic Address : "GOMED"
In Reply Refer to
No. 4/10/91 G/934-36.
Enclo. 5 Copies.
Codes Used:
BENTLEY'S LIEBER'S
A. B. C. 6th EDITION
BUSINESS TELEGRAPH CODE

OFFICE OF THE
CHIEF ENGINEER, HYDRO-ELECTRIC
CONSTRUCTION PROJECTS,
POST BAG NO. 60,
RACE COURSE CROSS ROAD,
Bangalore-1, 18th Sept. *195* 8
(Mysore, S. India)

MYSORE GOVERNMENT SECRETARIAT
NO. 10
19 SEP 1958
PUBLIC WORKS BRANCH

The Secretary to the
Government of Mysore,
Electrical Department,
BANGALORE.

MYSORE GOVERNMENT SECRETARIAT
13589
22 SEP 1958
ELECTRICAL BRANCH

Sub:- Repairs to the stop log gates and Inlet gates at Tungabhadra Dam Left Bank, Munirabad - Purchase of Diving ~~equipments~~ Apparatus

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Further to this office letter No.G/768-70 dated 13/16th Aug. 1958, forwarding the estimate for the repairs for the stop-logs, intake gates and trash racks ~~etc~~, etc I write to state that arrangements are being made to obtain the services of divers to attend to the above repairs under water. It is, however, very necessary to procure suitable Diving Apparatus ~~Suits~~ for the divers so as to enable them to work for prolonged periods under water, in depths below 70 to 80 feet. Accordingly, letters had been addressed to the several Chief Engineers of the Madras, Cochin and Calcutta Harbour Works and all of them have replied that they cannot spare the Diving Suits and that M/s. Burn & Co., are the agents in India (vide copies of letters enclosed) from whom the equipment may be obtained.

M/s. Burn & Co., on enquiry have forwarded a quotation for the Diving equipment at Rs. 10,000/- per set as per their letter No.63/164 dated 8th Sept. 58 (copy enclosed). Since the equipment is very urgently required, sanction of Govt., is requested to place an order directly with the firm for two sets of Diving ~~Suits~~ Apparatus at a total cost of Rs. 20,000/- with M/s. Burn & Co., as they are found to be the only firm supplying such equipment. It is necessary to procure the

P.T.O.

the foreign exchange required for the equipment, for which separate letter will be addressed after receipt of sanctio.. of Government to the purchase and finalising the order.

In the estimate for Rs. 1,98,000/- forwarded to Govt., in the above quoted letter under reference, a provision of Rs. 5,000/- only has been made for one set of Diving Suit. But on the basis of quotation received the cost of one set of Diving ~~Suit~~ Apparatus including the auxiliaries is Rs. 10,000/- and since two sets are very essential for completing the works quickly, the provision will have to be increased to Rs. 20,000/- raising the total cost of the estimate to Rs. 2,13,000/-. I would, therefore, request you kindly to obtain and communicate sanction of Government for the following:-

1. To purchase two ~~Diving Suit equipment~~ Sets of diving apparatus at a total cost of Rs. 20,000/- by directly placing an order with M/s. Burn & Co., Ltd., on the basis of quotation received;

2. To enhance the provision of Rs. 5,000/- under the item 10(f) of the estimate, purchase of one Diving Suit, to Rs. 20,000/- for two sets,

A N D

3. Sanction of Govt. to an estimate amounting to Rs. 2,13,000/- instead of Rs. 1,98,000/- and to meet the provision under the revised estimate for the Project.

Yours faithfully,

M.V. Srinivasa Murthy 18/9/58

CHIEF ENGINEER, H.C.P.

Letter No.63/164 dated 8th September 1958 from M/s.Burn & Co., Ltd., P-10, Mission Row Extension, P.B.No.191, Calcutta 1, to the Chief Engineer, Hydro-Electric Construction Projects, P.B.No.60, Race Course Cross Road, Bangalore 1.

--

Diving Equipment - Your Enq.No.6658 dated 29.8.58.

With reference to your above, we offer to import and supply as under:-

No.2 Set Diving Apparatus, complete in all respects for one Diver. Can be safely employed at depth 80 feet, as per attached leaflet.

3 Sets @ Rs.10,000/00 per Set.

F.O.R. Howrah or equal.

Sales Tax: shall be charged extra and recovered separately.

Makers: Messrs Siebe, Gorman & Co., Ltd., England.

Delivery: In about 5 to 6 months from date of receipt of order and the necessary Import Licence. You, as Actual User, must apply for the Licence; the necessary Application Forms will be furnished by us on receipt of your Order. Delivery time is without guarantee and not subject to penalty for delay or non-compliance due to causes beyond our control.

Price: The price is subject to amendment in accordance with the 'Conditions' enclosed.

"COPY"

M.V. Srinivasa Murthy

PR. Chief Engineer, H.E.C.P. 18/9/58

13)

PORT OF COCHIN.

Copy of letter No.S4/Mis/58 dated 9th Sept. 1958, from the Chief Engineer's Office, Cochin-3, to the Chief Engineer, Hydro Electric Construction Projects, Post Bag No.60, Race Course Cross Road, Bangalore-1.

Please refer to your letter No.4/10/9/6857 dated 2/3.9.58 regarding diving suits.

The Port has no diving suits to spare.

You may contact M/s. Burn & Co., Ltd., Agencies Department, P-10 Mission Row Extension, Calcutta for your requirements. They are the Indian agents for the diving dresses and equipment manufactured by the well known firm M/s. Siebe Gorman & Co., Ltd., and they will furnish you with all details.

Sd/-

CHIEF ENGINEER.

N.N. Srinivasa Murthy 10/9/58

CHIEF ENGINEER, H.C.P.

14)

THE COMMISSIONERS FOR THE PORT OF CALCUTTA.

Copy of letter No.427/B/3557 dated 12th Sept. 1958, from Chief Engineer's office, 15, Strand Road, Calcutta-1, to the Chief Engineer, Hydro Electric Construction Projects, Post Bag No.60, Race Course Cross Rd, Bangalore-1.

Diving gear.

Ref:- Your letter No.4/10/9/6858 dt. 2/3.9.58.

The Commissioners have no spare diving gear either for hire or for sale. Messrs. Siebe Gorman & Co., London, whose agents in India are Messrs. Burn & Co., Ltd., 12, Mission Row, Calcutta-1, may be in a position to supply the gear. Gear manufactured by them has been used in this Port.

Sd/-
Chief Engineer.

M.V. Srinivasa Murthy
CHIEF ENGINEER, H.C.P. 18/9/58

15)

MADRAS PORT TRUST.

Copy of letter No.D.O./E.W.I./6541/58 dated 27th August 1958, from the Chief Engineer's office, Madras-1, to Shri Narayana Rao, Chief Engineer, Hydro Electric Construction Projects, Bangalore.

Sub:- Divers' suit for Divers.

Ref:- Your D.O.letter No.491 dated 14/16-8-58.

Diving suits which are of imported origin, can be obtained from M/s. Burn & Co., Calcutta. The sizes of the suits can be decided upon to suit your divers. I suggest you obtain a catalogue from the firm and get the equipment required in consultation with your diver.

Sd/-
Chief Engineer,

M.V. Srinivasa Murthy
CHIEF ENGINEER, H.C.P. 18/9/58

MADRAS PORT TRUST.

16)

Copy of D.O.letter No.E.W.1/5982/58 dated 13th Aug, 58 from the Chief Engineer's office, Madras-1, to Shri H.V. Narayana Rao, Chief Engineer, Hydro Electric Construction Projects, Bangalore.

Sub:- Divers' suit for divers.

Please refer to your D.O.letter No.451 dated 1-8-58. I regret I have no divers' suit to spare for your use.

Sd/-
Chief Engineer.

M.V. Srinivasa Murthy
CHIEF ENGINEER, H.C.P. 18/9/58

17

D.K.Srinivasachar, I.A.S.
Secretary to Government,
P.W. & Electrical Dept.

MYSORE GOVERNMENT SECRETARIAT
Dated Bangalore 8th Sept. 1958

D.O.No.P.A.332

Dear Shri.Pulla Reddy,

I write this to bring to your kind notice the urgent need for procuring some diver's suits required for use in connection with the execution of the Tungabhadra Hydro-electric Project (Left Bank - Munirabad) and to request the assistance of the Ministry of Defence in regard to their procurement.

On the left bank of Tungabhadra Dam, Munirabad, eight gates were installed in the body of the Dam for allowing water into the turbines which are now under erection on the downstream side of the Dam. For the last several months there has been considerable difficulty in the operation of the stop log gates and inlet gates owing to the deterioration of some of the parts under water. The embedded parts and trash racks which are under water also require some repairs involving welding etc. There is also a great deal of debris in front of the gates and this will have to be removed immediately. All these works will have to be carried out at a depth of 70 to 80 ft. of water for long durations and the services of divers to carry out these works are being obtained in that connection. For work at such great depths divers will have to be provided with diving suits.

We have contacted several institutions and agenci which we felt are likely to have such suits but we have so far been unable to secure them. It is now understood that these suits are available with the Indian Navy. We would be most grateful if the Ministry

18/

of Defence could kindly authorise the loan of three such suits with necessary equipment for the period of a few months. As the execution of the Hydro-electric Scheme according to schedule depends on how soon we are able to set right the installation on the reservoir side which is under water, it would be very much appreciated if early action could be taken in this behalf.

With best regards,

Yours sincerely,

Shri.O.Pulla Reddy,I.C.S.
Secretary to the Government of India,
Ministry of Defence,
New Delhi

19/

A NOTE ON THE DIVERS' SUITS REQUIRED FOR USE ON THE LEFT BANK OF TUNGABHADRA MUNIRABAD.

On the Left Bank of Tungabhadra Dam, Munirabad 8 gates have been installed for feeding water to the Generating Units under installation, on the downstream side of the Dam. There has been some difficulty in the operation of stop log gates and inlet gates and these gates require some modification. The embedded parts and trash racks, which are under water, also require some repairs involving welding etc. Besides, there is a lot of debris in front of these gates and this will have to be removed immediately. These works have to be carried out at a depth of 70 to 80 feet under water for long durations and services of divers to carry out this work are being obtained from several sources. To work at such great depths, the divers are in need of divers' suits.

The Chief Engineer, Madras Port Trust, was addressed to supply on hire two divers' suits. He has replied that he has no divers' suits to spare to the department. Several firms have also been addressed, but so far we have not heard a favourable reply in the matter. The Naval authorities in Delhi will have to be contacted and arrangements made to get two or three divers' suits on hire. Or, if there is any firm or firms who supply these divers' suits, addresses of such firms may kindly be obtained.

Sd/- M.V.A.Setty
For Chief Engineer Hydro Electric
Construction Projects.

Issued No PWD-5-2 TBC 58 dt-31.10.58

A NOTE ON THE DIVERS' SUITS REQUIRED FOR USE ON THE LEFT BANK OF TUNGABHADRA DAM, M U N I R A B A D.

On the Left Bank of Tungabhadra Dam, Munirabad, 8 gates have been installed for feeding water to the Generating Units under installation, on the downstream side of the Dam. There has been some difficulty in the operation of stop log gates and inlet gates and these gates require some modification. The embedded parts and trash racks, which are under water, also require some repairs involving welding etc. Besides, there is a lot of debris in front of these gates and this will have to be removed immediately. These works have to be carried out at a depth of 70 to 80 feet under water for long durations and services of divers to carry out this work are being obtained from several sources. To work at such great depths, the divers are in need of divers suits.

The Chief Engineer, Madras Port Trust, was addressed to supply on hire two divers' suits. He has replied that he has no divers' suits to spare to the Department. Several firms have also been addressed, but so far we have not heard a favourable reply in the matter. The Naval authorities in Delhi will have to be contacted and arrangements made to get two or three divers' suits on hire. Or, if there is any firm or firms who supply these divers' suits, addresses of such firms may kindly be obtained.

for Chief Engineer, Hydro-Electric
Construction Projects:

PWD 52 JBE 58

21

A. KRISHNASWAMY AIYANGAR, IAS.
DEPUTY SECRETARY.

D.O.No.25(16)/SOIII/D(N-1)

GOVERNMENT OF INDIA
MINISTRY OF DEFENCE
NEW DELHI,
25th October 1958.

MYSORE GOVERNMENT SECRETARIAT
NO.....
10 OCT 1958
PUBLIC WORKS MAJOR IRRIGATION BRANCH

SECRETARIAT GOVERNMENT
NO. T.7. (M.S.)
30 OCT 1958
PUBLIC WORKS & ELEC. DEPTT.

Dear Srinivasachar,

Please refer to your D.O. letter No.P.A.332 dated September 8, 1958 to the Defence Secretary in regard to the loan of diving suits with necessary equipment for a period of a few months for underwater operations in connection with the execution of the Tungabhadra Hydroelectric Project.

2. Two diving suits and a diving pump can be lent on hire for a period of a few months provided that the State Govt. would meet the entire hire charges as worked out according to the existing official rates and procedure and also undertake the return of the equipment in question in good condition. In the event of any loss, damage etc., the State Govt. should replace the equipment or meet the entire cost involved which would be approximately Rs. 10,000/-.

3. Naval HQ have advised that the work to be undertaken is of some complexity and have, therefore, suggested that the State Govt. might consider the desirability of utilising the services of a Naval Officer, qualified in diving to examine the problem and advise the State Govt. accordingly. A qualified Naval Diver can be made available provided the State Govt. are prepared to re-imburse the full expenses involved thereon.

MYSORE GOVERNMENT SECRETARIAT
30 OCT 1958
15498
ELECTRICAL BRANCH.

.....2/-

22

4. On receipt of your confirmation to the above effect, suitable instructions will be issued to MHQ.

Yours sincerely,

(A. Krishnaswamy Iyengar)

Shri D.K. Srinivasachar, IAS,
Secretary to Govt.,
P.W.& Electrical Deptt.,
Mysore Govt. Secrt.,
Bangalore.

D.O. letter No.25(15)SOIII/D(N-1) dated the 25th October 1958 from the Deputy Secretary to the Government of India, Ministry of Defence, New Delhi to the Secretary to the Government of Mysore, Public Works and Electrical Departments, Bangalore.

Please refer to your D.O. letter No.P.A.332 dated the 8th September 1958 to the Defence Secretary in regard to the loan of diving suits with necessary equipment for a period of a few months for underwater operations in connection with the execution of the Tungabhadra Hydro Electric Project.

2. Two diving suits and a diving pump can be lent on hire for a period of a few months provided that the State Government would meet the entire hire charges as worked out according to the existing official rates and procedure and also undertake the return of the equipment in question in good condition. In the event of any loss, damage etc., the State Government should replace the equipment or meet the entire cost involved which would be approximately Rs.10,000/-.

3. Naval HQ have advised that the work to be undertaken is of some complexity and have, therefore, suggested that the State Government might consider the desirability of utilising the services of a Naval Officer, qualified in diving to examine the problem and advise the State Govt. accordingly. A qualified Naval Diver can be made available provided the State Government are prepared to re-imburse the full expenses involved thereon.

4. On receipt of your confirmation to the above effect, suitable instructions will be issued to NHQ.

---

urgent

MEMO No.PWD.

Dated Bangalore the 31 October 1958.
Kartikag Saka Era 1880.

Copy of the above is forwarded to the Chief Engineer, Hydro Electric Construction Projects, Bangalore for kindly intimating the feasibility of borrowing the equipment

(continued)

24)

from the Government of India, Ministry of Defence on the terms stipulated.

By Order,

(M.N.Viswanatha Setty)
Under Secretary to Government
P.W. and Electrical Department.

mab.2)

M. G. S. App. F VI—G. 2]

25

SUBJECT Repairs to the stop log gates & inlet gates of T.B. Project (Left Bank).

Diary No. of letter replied to.....

Section Elect.

~~Serial No.~~

Mysore Government Secretariat

File No. PWD. 52 TBE 58

( )

(10+6) 26-11-58 the 195

Proceedings of the Government of Mysore

Date of issue.....195

Read— correspondence ending with letter No. 4/10/9/G-934-36 dtd 18/9/58 from the Chief Engr. forwarding for sanction & govt. an estimate for Rs. 2.13 lakhs for repairs to the stop log gates & inlet gates at T.B. Dam (Left Bank) Munirabad, & requesting approval to purchase two sets of diving apparatus

Signed by.....

May this be—

(i) printed?

(ii) treated as a Standing Order?

(iii) published in the Gazette, English Part?

(iv) translated?

(v) placed at the disposal of the Press?

(vi) published in the Gazette, Kannada Part?

Order thereon.—No.

ON

Please type 4 copies

of CFP 6-8

26)

at a total cost of Rs 72000/-
by directly placing an order
with Messrs Burn & Co Ltd,
on the basis of quotation
submitted, & to take action
in regard to the these works
on hand & to supply some
of the items to I.B. workshop-
in lieu of money, the cost
of the works done but not in
of the lumpsum grant of
Rs 55 lakhs made to T.B.
Dam, Left Bank, in the
current revised est.
(Scheme in the II five year Plan)

List of Enclosures.

Order No PHD 52 TBE 55
dt Nov 1955.

Sanctioned.

By order & in the name
of the Governor of Mysore,

Copied by

Examined by

WD 01788—GPR—PZS—100,000—25-2-58

To
the G & H C P
Cuttack Estimate
Under Secretary to Govt
P.W.D. Dept.

Yrs A.G. Mysore
(Hirs & P. with Estm

PROCEEDINGS OF THE GOVERNMENT OF MYSORE.

R e a d -

Correspondence ending with letter No.4/10/9/C.934-36, dated the 18th September 1958 from the Chief Engineer, Hydro Electric Construction Projects forwarding for sanction of Government an estimate for Rs.2.13 lakhs for repairs to the stop log gates and inlet gates at Tungabhadra Dam (Left Bank), Munirabad and requesting for approval to purchase two sets of diving apparatus at a total cost of Rs.20,000/- by directly placing an order with Messrs. Burn & Co., Ltd., on the basis of quotation received and to his action in having putting these works on hand and entrusting some of the works to Tungabhadra Workshop in view of urgency, the cost of the work being met out of the lumpsum grant of Rs.55 lakhs made for Tungabhadra Dam, Left Bank in the current year's budget (Scheme in the Second Five Year Plan).

ORDER NO.PWD 52 TBH 58.

Dated Bangalore the 8/14 November 1958.
Kartika Saka Era 1880.

S a n c t i o n e d.

By Order and in the name of the
Governor of Mysore,

(E.Govindarajulu Nayak)
Under Secretary to Government
P.W. and Electrical Department.

To

The Chief Engineer, Hydro Electric Construction Projects, Bangalore (with Estimate).

The Accountant General, Mysore, Bangalore through Finance Department (with estimate).

mab.10)

ESTIMATE FOR STOPLOG INTAKE GATE AND TRASH RACK.

Sl. No.	Particulars	For six Vents Qnty.	Rate	Amount	For 2 Vents Amount
1.	2.	3	4	5	6
	INTAKE GATES				
1.	One set of seals with bottom top and sides for 6 vents.	6	650	3900.00	1300.00
2.	Rivetting, concreting cleaning and painting of Intake gates and embedded parts (materials only)	6	700	4200.00	1400.00
3.	Labour charges for concreting rivetting and painting of intake gates.	6	600	3600.00	1200.00
4.	Fixing the Stainless steel plates and adjusting the rollers guides (work to be done by T.B.Dam Workshop)	6	3000	18000.00	6000.00
		Total		29700.00	9900.00
	STOPLOG GATES				
5.	Modification of Stoplog gates including renewal of set of seals (materials & labour)	4	2500	10000.00	2500.00
6.	Lowering the Stoplog gates by stages, for lifting of intake gates for labour and miselaneous materials (This includes the lowering and lifting of stoplog gates for Grouting the embedded parts and again for providing the stainless steel plate lining for the intakes.	6	2000	12000.00	4000.00
7.	Manufacture of stoplog pilot frame 3/4T		L.S.	1000.00	
8.	Trial of the Pilot frame each vent for labour charges and Miscellaneous materials	6	300	1800.00	600.00
9.	(a) Wire rope 7/8" for stoplog frame work stoplogs for replacement.	200 ft.		1000.00	
	(b) Wire rope 1/2" for flap valve	100 ft.		500.00	
	(c) Bulldog clips and other miscellaneous materials for steel rope for lifting arrangement.	L.S.		1000.00	334.00
		Total		27300.00	7434.00

1.	2.	3.	4.	5.	6.
	DIVERS EXPENDITURE				
10.(a)	Diver days for rectification of stoplog vent which includes the following chipping the curtain wall cutting the protruding reinforcements. Checking the railguides and soldering when ever necessary and removal of debris 120 days for each vent including overhauling.	720 days	Rs.15 per day	10800.00	3600.00
(b)	Hire charges for the diving equipment like suit etc.	L.S.		2000.00	667.00
(c)	Transport charges for the divers and equipment	L.S.		1000.00	334.00
10 (d)	Materials like hose oil hammers and other equipment required.	L.S.		3000.00	1000.00
(e)	Supervision charges for a technician for diving	4 months.	250/- month	1000.00	334.00
(f)	Purchase of one diving suit with the accessories	L.S.		20000.00	-
			Total	37800.00	5935.00
	TRASH RACKS				
11.(a)	Cost of modification for each vent extra for welding angle and plates for 6 vents.	54	100	5400.00	1800.00
(b)	Lowering and fixing the frames into position by sending the divers.	54	150	8100.00	2700.00
(c)	Under water welding of the missing members and other loose members in the trash rack frame work including the cost of materials and labour.	30	600 per operating.	18000.00	6000.00
(d)	Painting the trash rack frame work including the cost of paint and labour.	30 boys.	100	3000.00	1000.00
			Total	34500.00	11500.00
12.	Erection of hoists (material and labour)	6	300	1800.00	600.00
13.	Laying of the Pipe line for working the air compressor for gunniting for diesel oil etc. including labour charge for 6 months.	6 months.	1500 per month.	9000.00	3000.00
14.	Esti ate for gunnitting and grouting etc. as already submitted by Exedutive Engineer Civil			30000.00	

A B S T R A C T

	FOR SIX VENTS	FOR TWO VENTS
1. Intake Gates	29,700.00	9,900.00
2. Stoplog Gates	27,300.00	7,434.00
3. Divers Expenditure	37,800.00	5,935.00
4. Trash Racks	34,500.00	11,500.00
5. Erection of hoists	1,800.00 ~~1,00,000~~	600.00
6. Laying the pipe line and running the air compressure	9,000.00	3,000.00
Total	1,40,100.00	38,369.00
Unforeseen works 2½%	3,127.25 ~~3,127.00~~	959.25 ~~959.00~~
Grand Total	1,43,227.25	39,329.25
or	1,43,228.00	39,328

Electrical and Mechanical works for 8 Vents.	1,43,228.00
	39,328.00
	1,82,556.00
Civil Works	30,000.00
	2,12,556.00
Total	2,12,556.00
Othor unforeseen works	444.00
Grand total	13,000.00

SANCTIONED BY GOVERNMENT FOR Rs 2½ lakhs and Two lakhs

mnb.4)

PROCEEDINGS OF THE GOVERNMENT OF MYSORE.

Read -

Correspondence ending with letter No.4/10/9/S.934-56, dated the 18th September 1958 from the Chief Engineer, Hydro Electric Construction Projects forwarding for sanction of Government an estimate for Rs.2.13 lakhs for repairs to the stop log gates and inlet gates at Tungabhadra Dam (Left Bank), and requesting for approval to purchase two sets of diving apparatus at a total cost of Rs.20,000/- by directly placing an order with Messrs. Burn & Co., Ltd., on the basis of quotation received and to the action in having putting these works in hand and entrusting some of the works to Tungabhadra Workshop in view of urgency, the cost of the work being met out of the lumpsum grant of Rs.55 lakhs made for Tungabhadra Dam, Left Bank in the current year's budget (Scheme in the Executive Year Book).

ORDER No. PD 52 IBC 58.

Dated Bangalore the 8/14 November 1958.
Kartika Saka 1880.

Sanctioned.

By Order and in the name of the Governor of Mysore,

(Govindarajulu Nayak)
Under Secretary to Government
P.W. and Electrical department.

To

The Chief Engineer, Hydro Electric Construction Projects, Bangalore (with Estimate).

The Accountant General, Mysore, Bangalore through Finance Department (with estimate).

ms3.10)

Appendix F. G.—1]

SUBJECT Repairs to the Stop-logs Gates & Inlet Gates at Tungabhadra Dam Left Bank, Munirabad

Diary No. of letter replied to .....

Section Genl

File No. PWD. 52 TBE 58.

Mysore Government Secretariat.

Serial No.

( )

the 195 .

No.

To The Secy. H.C.P. Bldg

Date of issue.....

Signed by.....

Sir,

In continuation of G.O. No. PWD 52 TBE 58 dt. 14/11/58 on the above subject, I am directed to request you kindly to intimate as to who are responsible for this work and how far their personal responsibility can be fixed for the bad work.

List of enclosures .....

Copied by.....

Examined by .....

Yours faithfully

Under Secy to Govt

WD-01787—GPB—PZS—100,000—10-2-58.

33

GOVERNMENT OF MYSORE

No. PWD 52 TBE 58

Mysore Government Secretariat,
VIDHANA SOUDHA,

Dated, Bangalore,/9.November 1958.

FROM

The *Secretary to the Government of Mysore,*
P.W. & Electrical Department.

To

The Chief Engineer,
Hydro Electric Construction Project,
B A N G A L O R E.

Sir

Sub: Repairs to the gates and Inlet gates at Tungabhadra Dam Left Bank, Munirabad.

In continuation of G.O.No.PWD 52 TBE 58 dated 14-11-58 on the above subject, I am directed to request you kindly to intimate as to who are responsible for this work and how far their personal responsibility can be fixed for the bad work.

Yours faithfully,

(E.Govindarajulu Nayak)
Under Secretary to Government,
P.W. & Electrical Department.

Mk/19

GOVERNMENT OF MYSORE.

34)

Telephone No.
Telegraphic Address: "GOMED"
In Reply Refer to
No. G/1221
Enclo.

Codes Used:
BENTLEY'S LIEBER'S
A. B. C. 6th EDITION
BUSINESS TELEGRAPH CODE

OFFICE OF THE
CHIEF ENGINEER, HYDRO-ELECTRIC
CONSTRUCTION PROJECTS,
POST BAG NO. 60,
RACE COURSE CROSS ROAD,
Bangalore-1, 18th November 1958
(Mysore, S. India)

SECRETARY TO GOVERNMENT
No .....
19 NOV 1958
PUBLIC WORKS & ELEC. DEPTT.

The Secretary to Government,
P.W. & Electricity Department,
Bangalore.

Sir,

Sub: Purchase of two sets of diving apparatus. CR 31.

I wish to invite your kind reference to G.O.No.PWD 52 TBE 58 dated 8/14th November 1958 sanctioning purchase of two sets of diving equipment directly from Messrs.Burn & Co. Ltd., Calcutta, in view of the urgency of procuring the same for repairing the gates at Munirabad. It will be necessary to obtain release of foreign exchange from the Ministry of Finance, Government of India, since the equipment has to be imported from United Kingdom. The release of foreign exchange required for the same is Rs.20,000/-. I request that the concerned authorities of the Government of India may please be addressed immediately to release the necessary foreign exchange.

Copies of your letter to the Union Ministry may kindly be endorsed to the Director, Central Water & Power Commission, 'Claramont', THE MALL, Simla.4, and also to the Member (Hydro-Electric) Central Water & Power Commission, (Power Wing) New Delhi.

Copies of Proformas are herewith enclosed.

MYSORE GOVERNMENT SECRETARIAT
16362
19 NOV 1958
ELECTRICAL BRANCH.

Yours faithfully,
K. S. Subramanyam 19/11
(K.S.Subramanyam)
for Chief Engineer, H.C.P.
(On Tour)

GOVERNMENT OF MYSORE

No. PWD 52 TBD 58.

Mysore Government Secretariat,
VIDHANA SOUDHA,

Dated, Bangalore 19th November 1958.
Kartika Saka Era 1880.

FROM

The Under Secretary to the Government of Mysore,
Public Works and Electrical Department.

To

The Secretary to the Government of India,
Ministry of Irrigation and Power,
New Delhi.

Sir,

Subject: Purchase of two sets of Diving Apparatus, for repairing the Gates at Munirabad.

- - -

I am directed to state that sanction has been accorded for the purchase of 2 sets of diving equipment directly from Messrs. Dura & Co., Ltd., Calcutta in view of the urgency of procuring them for repairing the gates at Munirabad and that as the equipment has to be imported from United Kingdom, foreign exchange to the extent of Rs.20,000/- (Rupees twenty thousand only) will be required urgently. I am therefore to request you kindly to move the Government of India, Ministry of Finance (Department of Economic Affairs) for the release of foreign exchange to the extent of Rs 20,000/-. A copy of the proforma and a note on the necessity of the equipment are also enclosed.

Yours faithfully,

Sd. (E.Govindarajulu Nayak)
Under Secretary to Government
P.W. and Electrical Department.

Memo No.PWD 52 TBD 58.

Dated Bangalore the 19th November 1958.
Kartika Saka Era 1880.

Copy of the above is forwarded to the Secretary to the Government of India, Ministry of Finance (Department of Economic Affairs) New Delhi for kindly releasing the necessary foreign exchange.

By Order,

Sd.(E.Govindarajulu Nayak)
Under Secretary to Government
P.W. and Electrical Department.

(continued)

mcb.6)

34 CE

Memo No.PWD 52 TBE 58.

Dated Bangalore the 19th November 1958.
Kartika Saka Era 1880.

Copies of the foregoing are forwarded to the Director, Central Water and Power Commission (Power Wing) New Delhi for information.

By Order,

Sd.(E.Govindarajulu Nayak)
Under Secretary to Government
P.W. and Electrical Department.

Memo No.PWD 52 TBE 58.

Dated Bangalore the 19th November 1958.
Kartika Saka Era 1880.

Copies of the above are forwarded to Shri H.V.Narayana Rao, B.Sc., (Mysore), B.Sc.,(Lond), M.I.E., Chief Engineer, Hydro Electric Construction Projects c/o Shri M.Hayath, Chairman Central Water and Power Commission, New Delhi,

By Order,

(E.Govindarajulu Nayak)
Under Secretary to Government
P.W. and Electrical Department.

Memo No.PWD 52 TBE 58.

Dated Bangalore the 19th November 1958.
Kartika 28th Saka Era 1880.

Copies of the above are forwarded to the Chief Engineer, Hydro Electric Construction Projects, Bangalore for information with reference to his letter No.G.1221 dated the 18th November 1958.

By Order,

(E.Govindarajulu Nayak)
Under Secretary to Government
P. W. and Electrical Department.

Telegrams: "GOMED"

GOVERNMENT OF MYSORE

37

Telephone No. { Office: 5457
Residence: 5641

SHRI H. V. NARAYANA RAO, B.SC. (Mys.),
B.SC. (Lond.), M.I.E.,
Chief Engineer (Electricity).

OFFICE OF THE
CHIEF ENGINEER, HYDRO-ELECTRIC
CONSTRUCTION PROJECTS,
POST BAG No. 60,
RACE COURSE CROSS ROAD,
Bangalore-1, 9th December 1958
(S. India)

D.O. No. 4/10/9/872

Dear Shri. Raghavendrachar,

Sub: Purchase of two sets of Diving Apparatus for repairing the gates at Munirabad.

I wish to invite reference to letter No. PWD 52 TBE 58 dated 19th November, 1958, from the Under Secretary to the Government of Mysore, Public Works and Electrical Department, to the Secretary to the Government of India, Ministry of Irrigation and Power, requesting for the release of foreign exchange to the extent of Rs. 20,000 for importing two diving sets from the United Kingdom. This equipment is very urgently required and therefore it is very necessary that the foreign exchange is released immediately to enable application for the Import Licence being forwarded immediately. I therefore, request you kindly to send a reminder to the concerned Government of India authorities to expedite the release of foreign exchange.

Yours sincerely,
H V Narayanarao
9/12

Shri. Raghavendrachar, I.A.S.,
Secretary,
Government of Mysore,
Public Works and Electrical Department,
Bangalore.

MYS. RE GOVERNMENT OF
17440
11 DEC 1958
ELECTRICAL BRANCH

The main file on the subject bearing No. PWD 52 TBE 58 has been called to the Deputy Secretary on 19/11/58 after the issue of the letter to the G.E.D.

A. KRISHNASWAMY AIYANGAR, IAS.
DEPUTY SECRETARY.

D.O. No. 25(16)/58/D(N-1)

38

GOVERNMENT OF INDIA
MINISTRY OF DEFENCE
NEW DELHI,

24th November 1958.

MYSORE GOVERNMENT SECRETARIAT
17232
6 - DEC 58
ELECTRICAL BRANCH

T.3
23 NOV 1958
PUBLIC WORKS & ELEC. DEPTT.

ES

Dear Srinivasachar,

Please refer to my D.O. letter No.25(16)/SOIII/D(N-1), dated 25th October, 1958, regarding the loan of Diving Suits with necessary equipment for a period of few months for underwater operations in connection with the execution of the Tungabhadra Hydro-electric Project.

This has not been received in the G.I.B. This may kl. marked to G/S.

Supdt. MC 3/12/58
G.O. Sec

the case does not relate to E-1 depdt

2. I am still waiting for the confirmation asked for in my letter under reference. It will perhaps be appreciated that the supply of two Diving Suits and a Diving Pump for the Tungabhadra Hydro-electric Project will be delayed so long as the confirmation asked for is not sent to us.

MYSORE GOVERNMENT SECRETARIAT
NO. 11304
3 DEC 1958
PUBLIC WORKS MAJOR IRRIGATION BRANCH

MYSORE GOVERNMENT SECRETARIAT
NO. 1357 AGI
- DEC 1958
PUBLIC WORKS, GENERAL IRRIGATION BRANCH

Yours sincerely,

(A. Krishnaswamy Aiyangar)

Shri D.K. Srinivasachar, IAS,
Secretary to Govt.,
P.W. & Electrical Deptt.,
Mysore Govt. Sectt.,
Banagalore.

SLVH 5/12

PWD 52 TBE 58 39

Telegrams "GOMED"

GOVERNMENT OF MYSORE

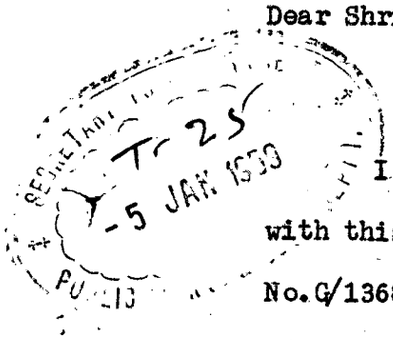
Telephone No. {Office: 5457 / Residence: 5641

Shri H. V. NARAYANA RAO, B.Sc. (Mys.),
B.Sc. (Lond.), M.I.E.,
Chief Engineer (Electricity).

OFFICE OF THE
CHIEF ENGINEER, HYDRO-ELECTRIC
CONSTRUCTION PROJECTS,
POST BAG No. 60,
RACE COURSE CROSS ROAD,
Bangalore-1, (S. India)

D.O. No. 4/10/9/ 9726-77

2nd January, 1959.



Dear Shri Srinivasachar,

Subject: Tungabhadra Hydro Electric Project,
Diving ~~Suits~~ Suits.

I wish to invite your kind reference to the correspondence ending with this office letter No.G/1320-21 dated 4th December 1958 and letter No.G/1368 dated 16th December 1958 in which I had requested you kindly to address the Deputy Secretary to the Government of India, Ministry of Defence, New Delhi, to spare 2 diving suits with a diving pump on hire system for 3 months together with the services of a Naval Officer experienced in such work. I am not aware whether the Government of India, Defence Department, have been addressed in the matter. As the equipment is required urgently in connection with the repairs to the gates, I request you kindly to arrange to get the equipment as early as possible from the Defence Department. The work of repairs to the gates can be taken up immediately, as the water level in the reservoir is going down and there will be just sufficient time to attend to the work before the next monsoon season sets in. It is therefore necessary to take immediate steps to secure the equipment without much loss of time.

Regarding the foreign exchange required for the purchase of 2 sets of diving apparatus for which Government order is already received, I had written a D.O. letter to Shri M. Hayath and he has intimated me that recommendations have been made by them to the Ministry of Irrigation and Power. I request you kindly to address the Ministry of Irrigation and Power to release the foreign exchange immediately, as M/s. Burn & Co.Ltd., with whom orders have to be placed for the equipment, can only take action on receipt of import licence.

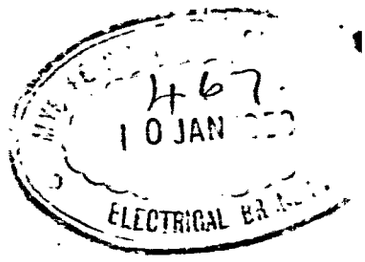
Yours sincerely,

H V Narayana Rao

Shri D. K. Srinivasachar, I.A.S.,
Secretary to the Govt. of Mysore,
P.W. & Electrical Departments,
BANGALORE-1.

401

131/48



This pertains to the Elect. Branch to which it may be transferred for necessary action.

Supdt. Elect; Sec) 8/1/59

8/1/59.

12
9/1
8.VD
9/1

455
10 JAN 1959
ELECTRICAL BRANCH

IMMEDIATE

41

No. 38/32/58-DW.VI.
GOVERNMENT OF INDIA
MINISTRY OF IRRIGATION AND POWER
****

Secy
SECRETARIAT
ES & M/S
- 9 JAN 1959
PUBLIC WORKS BRANCH

From

Shri S. Narayanaswamy,
Under Secretary to the Government of India.

To

The Secretary to the Govt. of Mysore.
Public Works & Electrical Department.
Bangalore.

New Delhi-2, the 6th January, 1959.

Subject:- Tungabhadra Project - Foreign Exchange(Rs.20,000/-) for the import of Diving Apparatus.

.....

Sir,

With reference to your letter No. PWD 52 TBE 58 dated the 19th November, 1958, I am directed to convey the sanction of the President of India to the release of foreign exchange equivalent to Rs. 20,000/-(Rupees twenty thousand only) for the import of Diving Apparatus from the U.K.

2. This issues with the concurrence of the Ministry of Finanance (Department of Economic Affairs).

D+P

SECRETARIAT
9 JAN 1959
PUBLIC WORKS & ELEC. DEPTT.

PWP 1/1

Yours faithfully,

(S. Narayanaswamy)
Under Secretary to the Government of India.

Copy of letter No.38/32/58-DW.VI dated the 6th January 1959 from the Under Secretary to the Government of India, Ministry of Irrigation and Power, New Delhi addressed to the Secretary to the Government of Mysore, Public Works and Electrical Department, Bangalore. 42

Subject: Tungabhadra Project - Foreign Exchange (Rs.20,000/-) for the import of Diving Apparatus.

With reference to your letter No.PWD 52 TBE 58 dated the 19th November, 1958, I am directed to convey the sanction of the President of India to the release of foreign exchange equivalent to Rs.20,000/- (Rupees twenty thousand only) for the import of Diving Apparatus from the U.K.

2. This issues with the concurrence of the Ministry of Finance (Department of Economic Affairs).

Memo No.PWD 52 TBE 58

Dated, Bangalore 12/14 January 1959.

Copy of the foregoing is forwarded to the Chief Engineer, Hydro-Electric Construction Project, Bangalore for information with reference to his letter D.O. No.4/10/9/976-77 dated the 2nd/3rd January 1959.

By Order,

(E.Govindarajulu Nayak)
Under Secretary to Government,
Electrical Department.

Mk/12

A. KRISHNASWAMY AIYANGAR, IAS.
DEPUTY SECRETARY.

43

D.O. No.25(16)/58/13/SOIII/D(N-1)
GOVERNMENT OF INDIA.
MINISTRY OF DEFENCE.
NEW DELHI
9th January 1959.

MYSORE GOVERNMENT SECRETARIAT 5 5 6 12 JAN 1959 ELECTRICAL BRANCH

Dear Shri Srinivasachar,

I find that your confirmation which I asked for in my letter No.25(16)/SOIII/D(N-1), dated the 25th October 1958 regarding acceptance of loan of diving suits in connection with the execution of Tungbhadra Hydro-electric Project, has not yet been received. My reminder No.25(16)/58/D(N-1), dated the 24th November, 1958, also refers in this connection.

GOVERNMENT 12 JAN 1959 DELHI PUBLIC WORKS & ELECTRICAL

You will perhaps appreciate that the Naval authorities cannot keep these stores indefinitely for the project because although they are not actually so earmarked, there is always a mental reservation that they are urgently required for a vital project of the country. This naturally somewhat circumscribes the freedom of disposition of these stores by the authorities concerned. I would, therefore, request that very early confirmation regarding your acceptance of conditions of loan etc. be sent to me in case the equipment is still required. If, however, the same is not now required, I shall be grateful for a line to this effect.

Yours sincerely,

(A. Krishnaswamy Aiyangar)

Shri D.K.Srinivasachar, IAS,
Secretary to Government,
P.W. & Electrical Deptt.,
Mysore Govt. Sectt.,
Bangalore.

The main file on the subject has been marked to the P.D. for concurrence on 13/1/59.

Telegrams: "GOMED"

GOVERNMENT OF MYSORE

Telephone No. { Office: 5457 / Residence: 5641

SHRI H. V. NARAYANA RAO, B.Sc. (Mys.),
B.Sc. (Lond.), M.I.E.,
Chief Engineer (Electricity).

OFFICE OF THE
CHIEF ENGINEER, HYDRO-ELECTRIC
CONSTRUCTION PROJECTS,
POST BAG No. 60,
RACE COURSE CROSS ROAD,
Bangalore-1, January 1959.
(S. India)

GOVERNMENT SECRETARIAT
D.O. No. 10 53
2 JAN 1959
866
WORKS CANALS IRRIGATION BRANCH

MYSORE GOVERNMENT SECRETARIAT
1276
28 JAN 1959
ELECTRICAL BRANCH

SECRETARIAT TO GOVERNMENT
No. T-25
22 JAN 1959
PUBLIC WORKS & ELEC. DEPTT.

Dear Shri Srinivasachar,

Sub: Tungabhadra Hydro Electric Project,
Diving Suits.

In continuation of my D.O.letter No.4/10/9/976-77 dated 23-1-1959, I request you to kindly take necessary action in addressing Government of India, Ministry of Defence, New Delhi regarding the sparing of 2 Diving suits with equipment etc., immediately. The work of repairs can be taken up effectively when the water level in the reservoir is going down and when the water is clear of silt before the coming monsoon. The matter may kindly be treated as urgent.

Yours sincerely,

H V Narayana Rao
22/1

Shri D.K. Srinivasachar, I.A.S.,
Secretary to the Govt. of Mysore,
P.W. & Electrical Departments,
BANGALORE-1.

This pertains to PWD (Elect'l) Branch to which it may be transferred.
U/S E.S.
23.1.59
23/1/59
Sri V.D.
28/1/59

45)

GOVERNMENT OF MYSORE

No.PWD 52 TBE 58.

Mysore Government Secretariat,
VIDHANA SOUDHA,
Dated, Bangalore, 24 ~~December 1958~~ January 1959.
Agrayanna Saka Era 1880.

FROM

The *Secretary to the Government of Mysore,*
Public Works and Electrical Department.

To

The Deputy Secretary to the Government of India,
Ministry of Defence,
New Delhi.

Sir,

Subject: Tungabhadra Hydro Electric Project (Left Bank), Munirabad - Loan of Diving suits from Naval Headquarters.

- - -

With reference to your D.O. letter No.25(16)/58/D(N-1), dated the 24th November 1958 on the above subject, I am directed to request you kindly to move the Government of India to spare 2 Diving Suits and Diving Pump on hire system for a period of 3 months in the first instance. The Government of Mysore will meet the hire charges at the standard rates prescribed by the Government of India. In view of the complexity involved in the operation it is very desirable that the services of a Naval Officer with sufficient experience in such works are spared to the State Government.

Yours faithfully,

Sd.(D.S.Raghavendrachar)
Secretary to Government
P.W. and Electrical Department.

Memo No.PWD 52 TBE 58.

Dated Bangalore the 24 ~~December~~ January 1959.
Agrayanna Saka Era 1880.

Copy of the above is forwarded to the Chief Engineer, Hydro Electric Construction Projects, Bangalore for information with reference to his letter No.4/10/9/G/1320-21, dated 4-12-1958.

By Order,

(E.Govindarajulu Nayak)
Under Secretary to Government
P.W. and Electrical Department.

M. G. S. App. F. G. 3.

MYSORE GOVERNMENT

SECRETARIAT

(*Continuation sheet draft form*).

(4**)

(4b)

Express Telegram

Kindly refer
letter twentyninth
January Stop
Expedite hire
Diving suits and
Diving pump and
services Naval
Officer

Worksec

To

The Deputy Secretary
Ministry of Defence
New Delhi

Letter in Confirmation

WD 03546—GPB—10,000 —14-8-53

GOVERNMENT OF MYSORE.

Mysore Government Secretariat,

No.PWD 52 TBE 58. Dated Bangalore the 5 February 1959.
Magha Saka Era 1880.

From

The Under Secretary to the Government of Mysore,
P.W. and Electrical Department.

To

The Deputy Secretary to the Government of India,
Ministry of Defence,
New Delhi.

Sir,

Subject: Tungabhadra Hydro Electric Project (Left Bank), Munirabad - Loan of Diving suits from Naval Headquarters.

- - -

I am directed to confirm having sent the marginally

To

The Deputy Secretary,
Ministry of Defence, New Delhi.

Kindly refer letter twentysixth January Stop Expedite hire Diving suits Diving pump and services Naval Officer.

Worksec.

Noted telegram on the above subject.

Yours faithfully,

(E. Govindarajulu Nayak)
Under Secretary to Gov
P.W. & Electrical Dept

mab.2)

48)

EXPRESS TELEGRAM.

THE DEPUTY SECRETARY

MINISTRY OF DEFENCE NEW DELHI.

KINDLY REFER LETTER TWENTYSIXTH JANUARY STOP EXPEDITE HIRE DIVING SUITS DIVING PUMP AND SERVICES NAVAL OFFICER.

WORKSEC.

(E.Govindarajulu Nayak)
Under Secretary to Government
P.W. and Electrical Dept.

mab.4)

Telegrams: "GOMED" GOVERNMENT OF MYSORE Telephone No. {Office: 5457 {Residence: 5641

SHRI H. V. NARAYANA RAO, B.Sc. (Mys.), B.Sc. (Lond.), M.I.E.,
Chief Engineer (Electricity).

OFFICE OF THE
CHIEF ENGINEER, HYDRO-ELECTRIC
CONSTRUCTION PROJECTS,
POST BAG NO. 60,
RACE COURSE CROSS ROAD,
Bangalore-1, (S. India)

MYSORE GOVERNMENT SECTT. 2002 2 FEB 1959 ELECTRICAL BRANCH

49

D.O. No. 1104

6th February, 195 9.

SECRETARIAT TO GOVERN. No. T-32 9 FEB 1959 E.S. PUBLIC WORKS & ELEC. DEPTT.

Dear Sri Srinivasachar,

Subject: Tungabhadra Hydro-Electric Project (Left Bank), Munirabad - Loan of Diving suits from Naval Headquarters.

I write to invite your kind reference to my conversation the other day requesting that the Deputy Secretary to the Government of India, Ministry of Defence, may kindly be reminded telegraphically regarding the urgent necessity for sparing two diving suits and diving pumps on hire system for a period of three months and also regarding the obtaining of the services of a naval officer with sufficient experience for our purpose. This has also reference to your letter No.PWD 52 TBE58 dated 24-1-1959 addressed to the Deputy Secretary to the Government of India.

Yours sincerely,

H. Narayana Rao 6/2

Sri D. K. Srinivasachar, I.A.S.,
Secretary to the Government
of Mysore, P.W.& Elecl.Department,
BANGALORE-1.

PWD 52 TBE 58

50

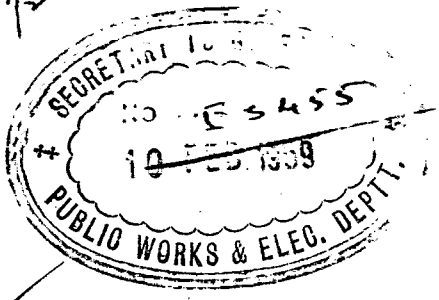
Telegram to the G.O.I. was issued on 5/2/59.

for [illegible] perusal

9/2

(see P. 41+2)

9/2



10

10/2

10/2

51)

No.25(16)/58/340/SOIII/D(N-1)
Government of India,
Ministry of Defence,
New Delhi, the 18th February 1959.

To

The Secretary to the Government of Mysore,

Public Works and Electrical Department,

BANGALORE.

Subject:- Tungabhadra Hydro Electric Project (Left Bank). Munirabad - Loan of Diving Suits from Naval Headquarters.

Sir,

With reference to your letter No.PWD52 TBE 58, dated the 24th January 1958 on the above subject, I am directed to say that before action is taken to release the equipment required by the State Government and depute a qualified Naval Diver, the Government of Mysore may kindly give confirmation that :-

(i) the equipment loaned will be returned in good condition,

(ii) the State Govt. would replace the equipment or meet the entire cost involved which would be approximately Rs. 10,000/- in the event of any loss, damage etc.,

(iii) full expenses involved on making a qualified Naval Diver available re-imbursed to the Govt. of India.

2. It is requested that the above confirmation may be sent to this Ministry at an early date to enable us to proceed with the release of the equipment and the deputation of the Naval Diver.

Yours faithfully,

(L. Gomez)
Under Secretary to the Government of India.

52)

No. F.25(16)/58/668/SOIII/D(N-1),
Government of India,
Ministry of Defence,
New Delhi, the 12th March, 1959.

To

The Secretary to the Government of Mysore,
Public Works and Electrical Department,
Bangalore.

Subject:- Tungabhadra Hydro Electric = Project (Left Bank). Munirabad - Loan of Diving Suits from Naval Headquarters.

Sir,

With reference to your letter No. PWD 52 TBE 58 dated 5th February, 1959, and telegram dated 10.3.1959, I am directed to state that necessary instructions are now being issued to the NHQ to issue two diving suits and a diving pump on hire for a period of a few months. Naval Headquarters are also being requested to loan the services of a Naval Officer, qualified in diving, to examine the problem and to advise the State Government accordingly.

Yours faithfully,

(L. Gomez)
Under Secretary to the Govt. of India.

Copy of letter No.F.25(16)/58/667/SOIII/D(N-1) dated the 12th March 1959 from the Under Secretary to the Government of India, Ministry of Defence, New Delhi addressed to the Secretary to the Government of Mysore, Public Works and Electrical Department, Bangalore.

Subject: Tungabhadra Hydro Electric Project (Left Bank). Munirabad - Loan of Diving Suits from Naval Headquarters.

With reference to your letter No.PWD 52 TBE 58 dated 5th February 1959, and telegram dated 10.3.1959, I am directed to state that necessary instructions are now being issued to the NHQ to issue two diving suits and a diving pump on hire for a period of a few months. Naval Headquarters are also being requested to loan the services of a Naval officer, qualified in diving, to examine the problem and to advise the State Government accordingly.

Memo No.PWD 52 TBE 58.

Dated, Bangalore 19 March 1959.

Copy of the above is forwarded to the Chief Engineer, Hydro Electric Construction Projects, Bangalore for information.

By Order,

(E.Govindarajulu Nayak)
Under Secretary to Government,
Electrical Department.

Mk/17

54)

EXPRESS TELEGRAM

~~MINISTRY OF DEFENCE~~ DEFENCE MINISTRY

~~GOVERNMENT OF INDIA~~ NEW DELHI

YOUR LETTER EIGHTEENTH FEBRUARY REGARDING LOAN OF DIVING SUITS FOR TUNGABHADRA PROJECT, MUNIRABAD. GOVERNMENT OF MYSORE AGREE FOR CONDITIONS (i) to (iii) OF YOUR LETTER. KINDLY EXPEDITE LOANING EQUIPMENT AND DEPUTATION OF NAVAL DIVER.

WORKSEC

Memo No.PWD

Copy of the above is forwarded to Sri H.V.Narayana Rao, Chief Engineer, Hydro Electric Construction Projects, C/o. Sri M.Hayath, Chairman, C.W.P.C. New Delhi, for information and for kindly pursuing the matter with the naval headquarters and the Defence Ministry.

By Order,

9/3

Under Secretary to Govt.
Electrical Deptt.

EXPRESS TELEGRAM

DEFENCE MINISTRY

NEW DELHI

YOUR LETTER EIGHTEENTH FEBRUARY REGARDING LOAN OF DIVING SUITS FOR TUNGABHADRA PROJECT, MUNIRABAD. GOVERNMENT OF MYSORE AGREE FOR CONDITIONS (i) TO (iii) OF YOUR LETTER. KINDLY EXPEDITE LOANING EQUIPMENT AND DEPUTATION OF NAVAL DIVER.

WORKSEC

(Not to be telegraphed)

(E.Govindarajulu Nayak)
Under Secretary to Government
Electrical Department.

Memo No.PWD 52 TBE 58.

Dated, Bangalore 9 March 1959.

Copy of the above is forwarded to Sri H.V.Narayana Rao, Chief Engineer, Hydro Electric Construction Projects, C/o. Sri M.Hayath, Chairman, Central Water and Power Commission, New Delhi for information and for kindly pursuing the matter with the naval headquarters and the Defence Ministry.

By Order,

(E.Govindarajulu Nayak)
Under Secretary to Government,
Electrical Department.

EXPRESS TELEGRAM

56

NAVAL HEADQUARTERS

NEW DELHI

KINDLY REFER ~~TO~~ LETTER ~~DATED THE~~ OF 12TH MARCH 1959

OF DEFENCE MINISTRY ~~GOVERNMENT OF INDIA~~ REGARDING LOAN

OF DIVING ~~SUITS~~ EQUIPMENT and a Naval Officer FOR TUNGABHADRA PROJECT MUNIRABAD.

KINDLY EXPEDITE LOANING EQUIPMENT AND DEPUTATION OF

NAVAL OFFICER. AS MATTER IS MOST REPEAT MOST

URGENT

WORKSEC

(Not to be Telegraphed)

Under Secretary to Government
Electrical Department.

57

EXPRESS TELEGRAM.

NAVAL HEADQUARTERS

NEW DELHI

KINDLY REFER LETTER OF 12TH MARCH 1959 OF DEFENCE MINISTRY REGARDING LOAN OF DIVING EQUIPMENT AND NAVAL OFFICER FOR TUNGABHADRA PROJECT MUNIRABAD STOP KINDLY EXPEDITE LOANING EQUIPMENT AND DEPUTATION OF NAVAL OFFICER AS MATTER IS MOST REPEAT MOST URGENT.

WORKSEC.

(Not to be Telegraphed)

V. Shankarappa 25/3

(V.Shankarappa)
Under Secretary to Government
Electrical Department.

25/3.

mab.6)

58

EXPRESS TELEGRAM.

NAVAL HEADQUARTERS

NEW DELHI

KINDLY REFER LETTER OF 12TH MARCH 1959 OF DEFENCE MINISTRY REGARDING LOAN OF DIVING EQUIPMENT AND NAVAL OFFICER FOR TUNGABHADRA PROJECT MUNIRABAD STOP KINDLY EXPEDITE LOANING EQUIPMENT AND DEPUTATION OF NAVAL OFFICER AS MATTER IS MOST REPEAT MOST URGENT.

WORKSEC.

(Not to be Telegraphed)

V. Shankarappa 27/3

(V.Shankarappa)
Under Secretary to Government
Electrical Department.

mab.6)

Telegrams : "GOMED"

GOVERNMENT OF MYSORE

Telephone No. { Office: 5457 / Residence: 5641

SHRI H. V. NARAYANA RAO, B.Sc. (Mys.),
B.Sc. (Lond.), M.I.E.,
Chief Engineer (Electricity).

OFFICE OF THE
CHIEF ENGINEER, HYDRO-ELECTRIC
CONSTRUCTION PROJECTS,
POST BAG No. 60,
RACE COURSE CROSS ROAD,
Bangalore-1, (S. India)

D.O. No. 1245 Three

25th March, 195 9.

MYSORE GOVERNMENT SECTT.
27 MAR 1959
4209
ELECTRICAL BRANCH.

Dear Shri Srinivasachar,

Subject: Repairs to Gates at Tungabhadra Dam (Left Bank) Munirabad - Loaning of diving suits by the Navy.

******

I wish to enclose herewith a copy of the telegram sent by me on the 19th instant to the Naval Headquarters, New Delhi, on the above subject and a copy of the D.O. letter No.1229 dated 20-3-1959 addressed to Sri V. K. Shama Iyengar, who is at present in Delhi, to personally contact the concerned persons in Naval Head Quarters and expedite the matters. Further, I have sent another telegram today to the Naval Headquarters reminding them in the matter and a copy of the telegram is being sent to you for your kind information.

SECRETARIAT TO GOVERNMENT
No. T-1
26 MAR 1959
P.W. & ELECTL. DEPT.
PUBLIC W...

The Superintending Engineer(Elecl), Hydro Electric Construction Projects, Munirabad has telephoned to me that this is the most opportune moment to tackle the work in view of the low level and clearness of water in the reservoir. If we do not get the diving suits in time and if there is delay in deputing the Naval staff, qualified in diving, it will seriously affect the programme of works and I am afraid the commissioning of the generating units will be delayed by one season, unless we tackle the underwater repair work and complete it by May 1959.

I would therefore request you kindly to take up this matter once again on the Governmental level stressing the importance and urgency of work.

Yours sincerely,

H V Narayana Rao

Shri D. K. Srinivasachar, I.A.S.,
Secretary to the Government of Mysore,
P.W. & Electrical Department,
BANGALORE-1.

EXPRESS TELEGRAM.

NAVAL HEADQUARTERS
NEW DELHI

REFLET INDIA GOVERNMENT DEFENCE MINISTRY TO MYSORE GOVERNMENT DATED TWELTH INSTANT COPIED TO YOU STOP

EXPEDITE DESPATCH DIVING SUITS AND SERVICES NAVAL OFFICER

~~EXPEDITE~~

GOMED

Not to be telegraphed:

CHIEF ENGINEER, HECP.

Memo No.17839-40/One Bangalore, dated 19th March 1959.

POST copy in confirmation to the Naval Headquarters, New Delhi-11. This has reference to letter No.F.25(16)/58/667 SO III/D(N-1) dated the 12th March 1959 addressed to the Secretary to Government of Mysore, P.W. and Electrical Bangalore by the Under Secretary to Government of India, Ministry of Defence and copy enclosed for kind reference and with a request to send the diving suits and to spare the services of a Naval Officer, qualified in diving, immediately in view of the fact that the rains would start soon and render the water in the reservoir thick and turbid and further to take advantage of the low level and clearaness of water, at present, in the Tungabhadra Reservoir. This has reference to the repair to Gates at Tungabhadra Left Bank, Munirabad.

COPY to the Superintending Engineer (Electrical), HCP., Munirabad for information.

Sd/- M.V.A. SETTY

for CHIEF ENGINEER, HECP.

" COPY "

H. Suryanarayana 25/3

CHIEF ENGINEER,
HYDRO ELECTRIC CONSTN. PROJECTS,
BANGALORE.

61)

COPY of D.O.letter No.1229 dated 20th March 1959 from Shri H.V.Suryanarayana, Assistant Engineer (Electrical) Hydro-Electric Construction Projects, Bangalore to Shri V.K. Shamaengar, C/o Shri Y.K.Murthy, Deputy Director, Central Water & Power Commission, New Delhi.

In enclosing herewith a copy of telegram sent to Naval Headquarters, New Delhi and also a copy of letter No.F.25(16)/58/667/SOIII/D/(N-1) dated 12th March 1959 addressed to the Secretary to Government of Mysore, P.W. & Electricity Department by the Under Secretary to Government of India, Ministry of Defence, New Delhi, I am directed by the Chief Engineer, Hydro-Electric Construction Projects, Bangalore to request you to please contact the concerned persons in the Naval Headquarters, New Delhi and expedite the matters.

With best regards,

" COPY "

H.V. Suryanarayana

CHIEF ENGINEER, HECP. 25/3

GM/-

/EXPRESS TELEGRAM/ 62)

NAVAL HEADQUARTERS
NEW DELHI

REFOURTELGRAM NINTEENTH INSTANT REGARDING LOANING OF DIVING SUITS FOR TUNGABHADRA PROJECT MUNIRABAD KINDLY EXPEDITE DESPATCH DIVING SUITS AND DEPUTATION NAVAL DIVER

GOLBD

Not to be telegraphed:

Chief Engineer, 25.3.59.
Hydro Electric Construction Projects,
P.B.60, Race Course Cross Road,
BANGALORE-1.

Memo No. 18,201-02. Bangalore Dated 25th March 1959.

POST COPY in confirmation to the Naval Headquarters, New Delhi-11 in continuation of our telegram dated 19th instant and confirmation copy No. 17839-40 dated 19.3.1959. The matter may kindly be expedited in view of the fact that the time left over for attending to repair works is very short and the rainy season is fast approaching.

COPY forwarded to the Secretary to Government, Electrical Department, Bangalore for kind infn.

63)

EXPRESS TELEGRAM

DEFENCE MINISTRY

NEW DELHI

YOUR LETTER EIGHTEENTH FEBRUARY REGARDING LOAN OF DIVING SUITS FOR TUNGABHADRA PROJECT, MUNIRABAD. GOVERNMENT OF MYSORE AGREE FOR CONDITIONS (1) TO (111) OF YOUR LETTER. KINDLY EXPEDITE LOANING EQUIPMENT AND DEPUTATION OF NAVAL DIVER.

WORKSEC

(Not to be telegraphed)

(E.Govindarajulu Nayak)
Under Secretary to Government
Electrical Department.

EXPRESS TELEGRAM

64

DEFENCE MINISTRY

NEW DELHI

YOUR LETTER EIGHTEENTH FEBRUARY REGARDING LOAN OF DIVING SUITS FOR TUNGABHADRA PROJECT, MUNIRABAD. GOVERNMENT OF MYSORE AGREE FOR CONDITIONS (i) TO (iii) OF YOUR LETTER. KINDLY EXPEDITE LOANING EQUIPMENT AND DEPUTATION OF NAVAL DIVER.

WORKSEC

(Not to be telegraphed)

(E.Govindarajulu Nayak)
Under Secretary to Government
Electrical Department.

GOVERNMENT OF MYSORE

65/

Telephone No. { 5465 / 6841 / 6842

Telegraphic Address : "GOMED"

In Reply Refer to

No. G/215-16

Encls. are

Codes Used :
BENTLEY'S LIEBER'S
A. B. C. 6th EDITION
BUSINESS TELEGRAPH CODE

OFFICE OF THE
CHIEF ENGINEER, HYDRO-ELECTRIC
CONSTRUCTION PROJECTS,
POST BAG NO. 60,
RACE COURSE CROSS ROAD,

Bangalore-1, 6th May 19 59.
(Mysore, S. India)

MYSORE GOVERNMENT ELECTRICAL BRANCH
6941
2 - JUN 1959

The Secretary,
Electrical Department,
BANGALORE.

MYSORE GOVERNMENT SECRETARIAT
NO. 4971
11 MAY 1959
PUBLIC WORKS MAJOR IRRIGATION & POWER BRANCH

Repairs to Stop Log gates at Tungabhadra Left Bank Station - Munirabad.

I am enclosing herewith a copy of letter No. 29/3/58-HE of 1-5-1959, addressed to the Chief of Naval Staff, regarding the above subject. From this it looks as though the matter is to be taken up for study afresh. Any way a further report will be sent after my talks in Delhi as already intimated.

Yours faithfully,

H. V. Narayana Rao 6/5
Chief Engineer, H.C.P.

Seen
GOVERNMENT SECRETARIAT
7 MAY 1959
PUBLIC WORKS DEPARTMENT

GOVERNMENT
NO
8 MAY 1959
T-13
PUBLIC WORKS & ELEC. DEPTT.

This may be referred to Electrical section.
27/5/59
Supdt. Elect. Secn. 27/5/59

May be filed
6/6

Copy of letter No.29/3/58-H.E. dated 1st May 1959 from the Chairman, Central Water & Power Commission (Power Wing) Shahjahan Road, New Delhi, to the Chief of Naval Staff, Naval Headquarters, 'F' Block, New Delhi. 66

/ AttentionL Captain S.K. Kale /

Sub: Diving assistance for repair of gates on the Left Bank of the Tungabhadra Dam (Mysore Side)

Reference is invited to our letter No.29/3/58-HE, dated the 28th April 1959, on the above subject. The matter was also discussed on the 1st May 1959, by our Shri K.L. Vij with Capt. S.K. Kale. We are grateful for a copy of the Report prepared by the Naval Diving Team, which was handed over to Shri Vij. As the inspection carried out by the Naval Inspector is of a preliminary nature, it was agreed that a detailed survey by the Diving Team is necessary before any repair work to the gates is undertaken. We shall, therefore, be grateful if a Diving Team is deputed to visit Tungabhadra for the purpose at as early a date as possible. In the meantime, we are getting all the relevant drawings studied in detail so that later on it would be easy to locate the defects by correlation of the data brought out by the Diving Team. We will also arrange to depute an engineer well experienced in the design, construction and maintenance of hydraulic gates etc., to Tungabhadra at the time of the visit of your Diving Team there. The date for their visit may kindly be intimated to us well in advance to enable us to make the necessary arrangements.

A copy of this letter is being forwarded to the Defence Ministry through the Ministry of Irrigation and Power for their information.

Sd/-
M. HAYATH
Chairman.

Copy forwarded for information to the Ministry of I.&P. (Shri K.V. Rajagopalan). The Tungabhadra Dam Power Station is scheduled for operation by the end of 1960. There are certain defects in the embedded parts of the intake gates installed for controlling supply to the Power Station. If the above commissioning date of the Power Station is to be adhered to, it is necessary that the defects in the gates should be rectified at as early a date as possible. The Mysore Government sought the help of the Naval Authorities for this purpose and now they have requested us to pursue the matter with them. This is being done by us as would be clear from the above letter to the Naval Headquarters. The matter may also kindly be brought to the notice of the Defence Ministry (Shri L. Gomez).

Copy forwarded for information to Shri H.V. Narayana Rao, Chief Engineer, Hydro-Electric Construction Projects to Government of Mysore, Race Course Cross Road, Bangalore-1, with further reference to our letter No. 29/3/58-HE, dated the 28th April 1959.

Sd/- Hayath,
Chairman.

/Copy/

S. Krishnaswamy

for Chief Engineer, H.C.P.

GOVERNMENT OF MYSORE.

67)

Telephone No.
Telegraphic Address: "GOMED"
In Reply Refer to
No. 4/10/9/ G/ 396-97
Enclo.
Codes Used:
BENTLEY'S LIEBER'S
A. B. C. 6th EDITION
BUSINESS TELEGRAPH CODE

OFFICE OF THE
CHIEF ENGINEER, HYDRO-ELECTRIC
CONSTRUCTION PROJECTS,
POST BAG NO. 60,
RACE COURSE CROSS ROAD,
Bangalore-1, 30th May 1959.
(Mysore, S. India)

MYSORE GOVERNMENT SECRETARIAT
No. E
1 - JUN 1959
PUBLIC WORKS BRANCH

1/6

MYSORE GOVERNMENT SECRETARIAT
6977
2 - JUN 1959
ELECTRICAL BRANCH

The Secretary to Government,
Public Works & Electricity Department,
BANGALORE.

S i r,

Sub: Tungabhadra Hydro-Electric Project - Left Bank, Munirabad - Diving assistance from the Indian Navy.

I wish to inform you that one officer and 4 divers deputed by the Commodore, Cochin, under orders from the Naval Headquarters, New Delhi, arrived at Munirabad on 14-5-1959 and have since been investigating the condition of the stop-log gate grooves, curtain wall and the debry in front of the power sluices, etc., under water. During investigation, they have found a number of I-sections, rods, etc., in addition to concrete blocks, stones, etc., at the cill level of the sluices. It is also seen that the debry extends for a good length in front of the power sluices.

It is learnt that the diving team now working at Munirabad have instructions only to conduct investigations. But, it is considered desirable to have atleast 4 stop-log gates inserted in position after removal of debry in each vent so that the main gates of these sluices may be taken out for repairs and arrange for easy operation of these gates. The Chief Naval Staff, New Delhi, was therefore requested to kindly advice the Diving team at Munirabad to atleast do such portion of the work as is required to insert 4 stop-log gates in position. They have been kind enough to advice the officer working at Munirabad to take up this portion of work also during their present visit.

A detailed report in this connection will be forwarded to Government after the work progresses.

Submitted for perusal

Yours faithfully,

(M.V.A. Setty) 30/5/59
CHIEF ENGINEER, H.E.P. I/C

7315
11 JUN 1959
ELECTRICAL BRANCH.

PWD SE TBC SW
Sms A
16/5/59

68

No.F.25(16)/58/D(N-1)
Government of India,
Ministry of Defence,
New Delhi, the 4th June 1959.

To

The Secretary to the Government of Mysore,
Public Works and Electrical Department,
BANGALORE.

MYSORE GOVERNMENT SECRETARIAT
NO. EC
10 JUN 1959
PUBLIC WORKS BRANCH

Subject:- Tungabhadra Hydro Electric Project (Left Bank), Munirabad - Loan of Diving Suits from Naval Headquarters.

Sir,

The undersigned is directed to refer to your telegram dated the 9th March 1959 and to state that the Central Water and Power Commission, New Delhi has requested for a detailed underwater survey of the nature and magnitude of the work involved by a Naval diving team. In view of the need to assess and carry out the necessary repairs in time, Naval Headquarters have issued necessary instructions to the Commodore-in-Charge, Cochin to depute the diving team comprising 4 Divers and 1 Officer-in-Charge to the site for carrying out the survey. The Central Water and Power Commission has agreed to depute an Engineer well experienced in design, construction and maintenance of hydraulic gates etc. to Tungabhadra when the diving team is there.

2. I am also to state that in the above context the Chief Engineer, Hydro-Electric construction projects, Bangalore has confirmed in his letter No.4/10/9/3604-6, dated 21-5-1959 - copy enclosed, that all the charges in connection with the visit and the work of the Naval Team will be accepted by his office. It is presumed this has your concurrence.

3. The expenditure involved which will be worked out with reference to the magnitude of the work involved and the duration of the stay of the team, will be intimated in due course.

(L. Gomez)
Under Secretary to the Government of India.

GOVERNMENT OF MYSORE

(69) 70

Office of the
Chief Engineer, HYDRO Electric
Construction Projects,
Post Bag No.60
Race Course Cross Road,

No.4/10/9/3604-6

Bangalore-1, 21st May 1959.

The Chief of Naval Staff,
Naval Headquarters,
F-Block New Delhi.

Sir,

For the attention of Capt. S.D.Kale

Sub:- DIVING ASSISTANCE FOR THE REPAIR OF STOPLOG GATES ON THE LEFT BANK OF THE TUNGABHADRA DAM - MONIRABAD.

I write to state that a telegram has been received from Sri M.Hayath, Chairman, Central Water & Power Commission, New Delhi, to the effect that we should confirm acceptance of the charges in respect of the Naval Team's visit to Tungabhadra Dam. I, therefore, hereby confirm that all the charges in connection with the visit and the work of the Naval Team will be accepted by this office. The details of charges may kindly be intimated to us in due course.

A copy of the telegram received from Mr. Hayath is herein enclosed for your kind information.

Yours faithfully,

CHIEF ENGINEER, HECP I/c

M. G. S. App. F. G. 3]

MYSORE GOVERNMENT

SECRETARIAT.

(*Continuation sheet draft form*).

No. PWD. 52 TBE 58 dy 24/6/59

(21/2/6/59

CFP 6.8

Subject :- T.B.H.E.P (Left Bank) Munirabad Loan & Drawings suits from Naval Headquarters

To

The Secretary to the Govt. of India, Ministry of Defence, New Delhi

Sir,

With reference to your letter No. F. 25(16)/58/D(N-1) dated the 4th June 1959 on the subject, I am directed ~~to request~~ you kindly to ~~intimate~~ ~~let us have an~~ ~~idea of what the~~ ~~costs are going to be~~ ~~here~~.

to confirm that this Govt. will bear ~~all~~ the charges in connection with the visit and the work of the naval team in this behalf. However, this Govt. would like to have an idea of the approximate expenditure likely to be incurred ~~in~~ this ~~open Survey~~ behalf

Yours faithfully,

19/6/59

Under the Chief Secretary

WD 0258—GPB—PZS-1,20,000—1-7-55.

72)

GOVERNMENT OF MYSORE

No. PWD 52 TBE 58.

Mysore Government Secretariat,
VIDHANA SOUDHA,
Dated, Bangalore, 24 June 1959
Ashada Saka Era 1881.

FROM

The Under *Secretary to the Government of Mysore,*
Electrical Department.

To

The Secretary to the Government of India,
Ministry of Defence,
New Delhi.

Sir,

Subject: Tungabhadra Hydro Electric Project (Left Bank) Munirabad - Loan of Diving Suits from Naval Headquarters.

With reference to your letter No.F.25(16)/58/D(N-1) dated the 4th June 1959 on the subject, I am directed to confirm that this Government will bear the charges in connection with the visit and the work of the Naval team in this behalf. However, this Government would like to have an idea of the approximate expenditure likely to be incurred in this behalf.

Yours faithfully,

(S.B.Riza Wasti)
Under Secretary to Government
Electrical Department.

mab.2)

PWD 52 TBE58

73

GOVERNMENT OF MYSORE

Telephone No. { 5465 / 6841 / 6842

Telegraphic Address : "GOMED"

In Reply Refer to

No. G/558-59

Encls. Report

Codes Used :
BENTLEY'S LIEBER'S
A. B. C. 6th EDITION
BUSINESS TELEGRAPH CODE

MYSORE GOVERNMENT SECRETARIAT
NO. ES
30 JUN 1959
PUBLIC WORKS BRANCH

OFFICE OF THE
CHIEF ENGINEER, HYDRO-ELECTRIC
CONSTRUCTION PROJECTS
POST BAG NO. 60,
RACE COURSE CROSS ROAD,

Bangalore-1, 30 June 1959.
(Mysore, S. India)

MYSORE GOVERNMENT SECRETARIAT
7887
30 JUN 1959
ELECTRICAL BRANCH

The Secretary to Government,
P.W. and Electrical Departments,
Bangalore 1.

Sir,

Sub: Report of work done by the divers deputed from the Naval Head Quarters Cochin, at Tungabhadra Dam Left Bank, Munirabad.

CFP67

In continuation of this office letter No.4/10/9/G/396-7 dated 30-5-1959 one officer and four divers arrived at Munirabad on 14-5-59 with the main object of conducting the investigations in connection with the repairs to the stop log gates and the intake gates. On further pursuance, necessary communication was obtained from the Naval Head Quarters to take up the job of lowering at least 4 stop log gates before the commencement of the monsoon. Consequent on this it was necessary for the diving team to stay at Munirabad till about the middle of June. As the first Officer Mr. Roy who was in charge to start with had to leave for U.K. another officer viz. Mr. Challayan was deputed for this work and also consequent on taking up the work of lowering the stop log gates, it was necessary to strengthen the team by one more diver. The additional diver with the relieving officer arrived at Munirabad on 22nd May, 1959.

During the period of their stay it was possible to carry out sufficient investigation and to know the conditions of the grooves etc. in each vent and the quantity of debris in front of each vent; and also to lower the stop log gates in No.1, 2, 3, 4 & 5 vents against the 4 urgently required. Now that the stop log gates are in position, further repair works on the intake gates and grouting of the embedded parts of the intake gates can be taken up.

It is necessary to mention here that it was possible

74/

to carry out this much of work due to the special interest taken by the diving team as they had to spend about 6 diving hours every day to carry out the job and it also necessitated a lot of ~~manual~~ manual work under water like lifting of heavy debris, materials like size stone, I-beams sections, concrete lumps, breaking of concrete under water with hammer and chisel and also using pneumatic hammer ~~for breaking concrete etc~~. As a result of this hard work only it was possible to lower the stop log gates into position before the water level in the reservoir started rising. The Naval Diving Team deserve commendation.

4. A detailed report is herewith enclosed regarding the works carried out and further works to be carried out with the help of the diving team. A copy of this report has also been proposed to be placed before the Project Meeting proposed to be held on the 7th July 1959 for the information of the members.

Yours faithfully,

29.6.59

CHIEF ENGINEER, HECP.
(In charge)

TUNGABHADRA HYDRO ELECTRIC PROJECT (LEFT BANK) - REPAIRS TO GATES.

Report on the work carried out by the Naval Diving T e a m.

A brief note on the condition of the gates and curtain walls on the left bank of Tungabhadra Project Dam has already been placed before the members of the Board in the 4th Meeting held on 9-7-1958. Subsequently strenuous efforts were made through the Central Government and the Central Water and Power Commission to get the help of the Naval Diving Team in this connection. The Naval Head Quarters, Delhi, were very kind enough to depute one officer and 4-5 Divers from their staff in Cochin to conduct the detailed investigation regarding the condition of the stop log gates, curtain wall and the sill level of the gates in front of the power sluice.

One Officer and four Divers arrived at Munirabad on 14-5-59 together with the necessary equipment required for the work. The orders that this team had received from the Naval Head Quarters were to conduct only the detailed investigations regarding the above. But it was necessary that at least four stop log gates had to be inserted in position after removing the debris at the bottom, if repairs to the main gates had to be attended to during this season. The Naval Head Quarters, New Delhi, were therefore requested to give necessary instructions to their team at Munirabad in the matter. They accordingly communicated their instructions to their officer that arrangements may be made by them to see that the four stop log gates are installed in position.

The Central Water and Power Commission had also deputed one Deputy Director Sri K.S. Chetty to assist our Engineers in this work.

A brief description of the work carried out by the Diving Team is given below:

~~Detailed report on the work carried out by the Diving team with the help of the staff available.~~

The first job tackled was the investigation of the actual condition of the stop log gate grooves and the condition at the sill of the gates. This work was carried out vent by vent noting down the reports of the divers after each dip. It was found generally that the debris that was lying at the sill of the stop log gate was from about 3 ft. to 7½ ft. depth. The debris was extending from the intake gate to the end of the bell mouth on the reservoir side. Even at the end of the bell mouth where the trash rack frame work is supported it was found that the foot of the trash rack frame was covered with about 2 ft. of debris in many places. During the investigation, soundings were taken by the Civil Engineering section simultaneously to find out the form of the debris in front of the trash rack for about a length of 100 ft. from the Dam face. This was to ascertain whether the approach had been sufficiently cleared. It is found even here that there is about 1½ to 2 ft. silt and debris above the sill level of the gates. It is necessary that this should be cleared sufficiently to prevent the silt and debris comin g into the machine and the possible wearing out of the runners due to mechanical abrasion. Since the job immediately to be tackled was to lower the stop log gates, no attempt was made to clear all the silt and debris in front of the dam. As the amount of work involved was very heavy, it was proposed consequently to clear sufficient width of the debris along the length of the stop log gate groove just enough to lower the stop log gates. This job also being rather huge for the divers to tackle during the short period of their stay, other means of lifting the debris was tried, namely, by using air lifts using compressed air alternately with the divers so that the divers were able to lift heavy materials like I-beam sections, size stones and blocks of concrete manually and the air lift was clearing the lighter material like silt, small stones, chips of concrete etc.

Investigations were carried out as to the condition of curtain wall on the reserovir side which was obstructing the movement of the stop log gates as the surface of the curtain wall was bulging unevenly towards the reservoir side. In fact advantage was taken of the lower level of the reservoir to rectify the defects in curtain wall above the water level by chipping the concrete. To check up the surface level a gauge was used above the water level. The same gauge was used by the divers to check up the surface below water. In No. 1 vent where there were few reinforcement rods projecting towards the reservoir to a length of ¾", these projecting rods were cut by the divers using hacksaw.

Investigations were carried out as to the condition of the surface by the side of the guide rails. It was found in No.3, 4 and 5 vents, guide rail had been covered to about 1/2 the height of the guide rail with extra concrete which had to be chipped if the stop log gate had to be lowered. As the length of this extra concrete by the side of the guide rails was to an extent of about 16 ft. this was a major job for the divers to tackle. Measurements were taken to check this projection of concrete and compared with that of the stop log gates. On detailed study it was easier to reduce the width of the stop log gate without affecting its strength or operation. Consequently for No.3, 4 and 5 gates the width of the stop log gates was suitably reduced. This investigation was further confirmed by lowering a pilot frame. It was found on one side of the stop log gate groove in No.3 and 4 vents a certain length of guide rail was missing. Replacing this rail involved under-water welding or alternative methods for which the diving team had not come prepared. As it is necessary for the diving team to come again for clearing the debris in the bell mouth after the monsoons, this job of replacing the rail was postponed concentrating the work on the job of lowering the stop log gates to facilitate repairing the main intake gates.

Clearing the debris and preparing the stop log gate grooves for lowering the stop log gates was found to be easier in 2, 3 and 4 vents. Consequently the same was cleared first and the stop log gates were lowered. The job of preparing No.1 stop log gate vent was found to be more difficult as it was found after clearing the debris about 6" to one foot of concrete crust sticking along the length of the stop log gate groove on the sill of the stop log gate. However, this was cleared by chipping with hammer and chisel and by using pneumatic chisels. During this period of slow operation of No.1 Vent, No.5 vent was also tackled where the debris was the maximum about 7½ ft. in depth. With the use of the air lift and the divers alternately it was possible to clear this also by about 14th of June, and the stop log gates were lowered in No.1 and 5 vents also.

During this period, investigations were also carried out to have details of measurement on the trash rack frame that has already been erected since the trash racks have to be made to suit these frames. As the time at the disposal of the diving team was limited, the measurements were taken upto the end of the 6th vent covering 3 generating units so that the trash racks could be got manufactured by the shutter manufacturing factory of the T.B. Dam. It is proposed to erect the trash rack with the help of divers when the naval diving team resume their work after the monsoon.

While the naval diving team was carrying out the above works, opportunity was taken to try one or two local divers to carry out the diving operation under the guidance of the naval diving Officer. The naval diving officer found these divers to be capable of carrying out diving jobs. But to have them as certified divers he was of opinion that it is necessary to send these people to the Diving School to undergo full course of training. However, while trying the sealing of the stop log gates, in No.1 and 5 vents, which were tried after the naval diving team left, it was necessary to use these divers for lifting the stop log gates again out of the water and

(97)

and clearing the sill more perfectly before lowering the same. Except for the fact that they are not certified divers, they were able to carry out the diving operation satisfactorily. It is necessary to say that this was possible because the divers and the officer in charge had observed a complete diving operation carried out by the naval team, observing all the precautions taken by this naval team.

It is to be stated in this connection that this amount of work could be carried out mainly due to the interest evinced by the Officer and the Diving Team that were deputed to work at Munirabad. They had to spend about six diving hours every day to carry out this job as expeditiously as possible and further the nature of work involved a lot of manual effort under water like lifting of heavy materials like stones, I-Beams section and concrete blocks etc. It is only as a result of this hard work by the Diving Team that it has been possible to lower the stop log gates in the position before the water level in the reservoir started raising. The Naval Diving Team fully deserve commendation.

Further works that are to be carried out with the help of the diving team in the next working season are:

1. Clearing the debris and preparing the appraoch to prevent debris coming into the machine while the generating units are drawing water.
2. Fixing up trash racks under water.
3. Attending to No.7, 8, 9 and 10 gates.
4. Replacing the missing rails under water.
5. Painting and protecting the trash racks frame work under water.
6. Plastering and Protecting up stream force of curtain wall bellow RL 1600.00.

29.6.53

CHIEF ENGINEER I/c
Hydro Electric Construction Projects.

MVA-GS

. PADMANABHAN,
ary, Hydro-electric Construction
.O.No. PWD

Mysore Government Secretariat
~~GENERAL AND REVENUE SECRETARIAT~~

Projects Board,
Bangalore, Dated, 6th July, 1959.
Ashada Saka Era 1881.

78

Dear Shri Setty,

With reference to your D.O. letter No.338 dated 30th June 1959 I am desired to state that the report may kindly be circulated among the members of the Civil and Electrical Engineering Committees of the Hydro Electric Construction Projects Board.

Yours sincerely,

qc 6P
4.7.59

Shri M.V.Aswathanarayana Setty, B.Sc.,B.E.,
Superintending Engineer,
~~Sharavathi Valley Project,~~
~~Kargal Post, Shimoga Dist.~~
Hydro-Electric Construction Projects, Bangalore

ks. W.

TUNGABHADRA HYDRO ELECTRIC PROJECT (LEFT BANK) - REPAIRS TO GATES.

Report on the work carried out by the Naval Diving Team.

A brief note on the condition of the gates and curtain walls on the left bank of Tungabhadra Project Dam has already been placed before the members of the Board in the 4th Meeting held on 9-7-1958. Subsequently strenuous efforts were made through the Central Government and the Central Water and Power Commission to get the help of the Naval Diving Team in this connection. The Naval Head Quarters, Delhi, were very kind enough to depute one officer and 4-5 Divers from their staff in Cochin to conduct the detailed investigation regarding the condition of the stop log gates, curtain wall and the sill level of the gates in front of the power sluice.

One Officer and four Divers arrived at Munirabad on 14-5-59 together with the necessary equipment required for the work. The orders that this team had received from the Naval Head Quarters were to conduct only the detailed investigations regarding the above. But it was necessary that at least four stop log gates had to be inserted in position after removing the debris at the bottom, if repairs to the main gates had to be attended to during this season. The Naval Head Quarters, New Delhi, were therefore requested to give necessary instructions to their team at Munirabad in the matter. They accordingly communicated their instructions to their officer that arrangements may be made by them to see that the four stop log gates are installed in position.

The Central Water and Power Commission had also deputed one Deputy Director Sri K.S. Chetty to assist our Engineers in this work.

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Investigations were carried out as to the condition of the surface by the side of the guide rails. It was found in No.3, 4 and 5 vents, guide rail had been covered to about 1/2 the height of the guide rail with extra concrete which had to be chipped if the stop log gate had to be lowered. As the length of this extra concrete by the side of the guide rails was to an extent of about 16 ft. this was a major job for the divers to tackle. Measurements were taken to check this projection of concrete and compared with that of the stop log gates. On detailed study it was easier to reduce the width of the stop log gate without affecting its strength or operation. Consequently for No.3, 4 and 5 gates the width of the stop log gates was suitably reduced. This investigation was further confirmed by lowering a pilot frame. It was found on one side of the stop log gate groove in No.3 and 4 vents a certain length of guide rail was missing. Replacing this rail involved under-water welding or alternative methods for which the diving team had not come prepared. As it is necessary for the diving team to come again for clearing the debris in the bell mouth after the monsoons this job of replacing the rail was postponed concentrating the work on the job of lowering the stop log gates to facilitate repairing the main intake gates.

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and clearing the sill more perfectly before lowering the same. Except for the fact that they are not certified divers, they were able to carry out the diving operation satisfactorily. It is necessary to say that this was possible because these divers and the officer in charge had observed a complete diving operation carried out by the naval team, observing all the precautions taken by this naval team.

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4. Replacing the missing rails under water.
5. Painting and protecting the trash racks frame work under water.
6. Plastering and Protecting up stream force of curtain wall bellow RL 1600.00.

29.6.53

CHIEF ENGINEER I/c
Hydro Electric Construction Projects.

MVA-GS

GOVERNMENT OF MYSORE

GOMED"

Telephone No. { Office :
Res. :

M.V. ASWATHANARAYANA SETTY,
B.Sc., B.E.,
Chief Engineer I/C

OFFICE OF THE
CHIEF ENGINEER, HYDRO-ELECTRIC
CONSTRUCTION PROJECTS,
POST BAG NO. 60,
RACE COURSE CROSS ROAD,
Bangalore-1, (Mysore S. India)

MYSORE GOVERNMENT SECRETARIAT
7966
3 - JUL 1959
ELECTRICAL BRANCH

D.O. No. 338 Report

30 June 1959.

Dear Shri Padmanabhan,

I wish to enclose herewith a report on the work carried out by the Naval Diving Team in connection with the repairs to the gates on the Left Bank of the Tungabhadra Dam. This may be kindly circulated ~~to~~ the members of the Board for their information.

Yours sincerely,

29.6.59

Shri K. Padmanabhan,
Secretary,
Hydro Electric Construction Projects,
Vidhana Soudha,
Bangalore 1.

SECRETARY TO GOVERNMENT
No.
1 JUL 1959
ES 2096
PUBLIC WORKS & ELEC. DEPTT.

PW&E 465 '59

for orders
Secy P.W.
30/6/59

with reference to 'A' on last page, we may write to the Naval HQ thanking them for assistance rendered. and the note may be circulated among the members of the

30/6

Civil and Electrical Engineering

Committees of the HCP Board

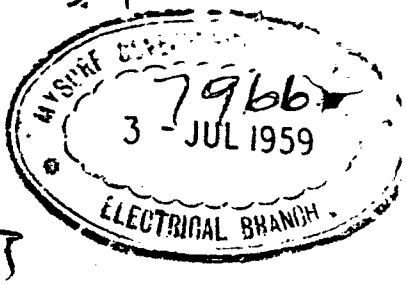
7/1/59

Draft typed for a letter to the Secretary, Govt (HCP) for approval.

4/7

6P
4.7.59

Issued 6/7/59



M. G. S. App. F. G. 3]

MYSORE GOVERNMENT

SECRETARIAT.

(*Continuation sheet draft form*).

84)

Subject :- Tungabhadra H.E. Project (Left Bank), Munirabad - Loan of Diving units from Naval Head, Bombay

No. PWD 52 TBE 58 A) 207/59

To

The Secretary to the Govt of India, Ministry of Defence, New Delhi.

Sir,

In continuation of this Govt's letter No: PWD 52 TBE 58 A 24/6/59 on the above subject, I am directed to ~~state that~~ the Diving Team deputed to the T.B.H.E Project (Left Bank) were able to carry out the diving operations satisfactorily. I am to state in this

request you to convey the thanks of this Govt. to the Naval Head Quarters for their timely assistance rendered by them.

WD 0258—GPB—PZS-1,20,000—1-7-55.

55

connection that it was
possible to carry out the ~~work~~ ~~work~~ with the interest
evinced by the Officer & the
Diving Team that were
deputed to work at Rumrabad
I am therefore to convey
the thanks of this Govt.
to the Naval Headquarters
for the work carried out
so expeditiously.

Yours faithfully

Sd
25/7/59

Dy. Secy to Govt
Elec. Dept

To

The Secy to the Govt
for information with
reference to his D.O. letter
No 338 of 30/6/59.

Under Secretary to Govt
Elec. Dept.
25/7

86)

GOVERNMENT OF MYSORE.

Mysore Government Secretariat,
Vidhana Soudha,

No.PWD 52 TBE 58

Bangalore, Dated the 28 July, 1959.
Shravana 6 Saka Era 1881.

From

The Deputy Secretary to the Government of Mysore,
Electrical Department,
Bangalore.

To

The Secretary to the Government of India,
Ministry of Defence,
NEW DELHI.

Sir,

Subject:-Tungabhadra Hydro Electric Project (Left Bank), Munirabad - Loan of Diving suits from Naval Headquarters.

****

In continuation of this Government's letter No. PWD 52 TBE 58 dated the 24th June 1959 on the above subject I am directed to request you to convey the thanks of this Government to the Naval Headquarters for the timely assistance rendered by them.

Yours faithfully,

Sd/(D.S.RAGHAVENDRACHAR).
Deputy Secretary to Government,
P.W. & Electrical Department.

Memo No.PWD 52 TBE 58

Bangalore, Dated the 28 July, 1959.

Copy of the above is forwarded to the Chief Engineer Hydro Electric Construction Projects, Bangalore, for information with reference to his D.O.letter No.338 dated the 30th June, 1959.

28/7/59
(S.B.RIZA WASTI).
Under Secretary to Government,
Electrical Department.

ks

87

GOVERNMENT OF MYSORE

Telephone No. { 5465 / 6841 / 6842

Telegraphic Address : "GOMED"

In Reply Refer to

No. 4|10|9| G/ 767-68

Enclo.

Codes Used :
BENTLEY'S LIEBER'S
A. B. C. 6th EDITION
BUSINESS TELEGRAPH CODE

OFFICE OF THE
CHIEF ENGINEER, HYDRO-ELECTRIC
CONSTRUCTION PROJECTS,
POST BAG .No. 60,
RACE COURSE CROSS ROAD,
Bangalore-1, 6/ August 1959.
(Mysore, S. India)

MYSORE GOVERNMENT SECRETARIAT
No. 15
6 AUG 1959
PUBLIC WORKS BRANCH

MYSORE GOVERNMENT SECRETARIAT
8954
7 - AUG 1959
ELECTRICAL BRANCH

The Secretary to Government,
P.W. and Electrical Departments,
Bangalore.

Sir,

Food charges for the Diving Team deputed for work at Tungabhadra Project - Munirabad.

I write to invite your kind reference to this office No. G558-59 dated 30-6-59 forwarding a detailed report of the work done by the Diving Team.

As stated therein, one officer and four divers arrived in Munirabad on 14-5-59 and this team was later joined by one more diver on 22-5-59.

As per the correspondence in this behalf, the entire cost of the deputation of divers is to be borne by the department and necessary provision therefor had been made in the estimate for repairs to stoplog gates, sanctioned in G.O.No.PWD 52 TBE 58 dated 8/14th November 1958 - Item 10(a) - Divers Expenditure. Suitable provision of Rs.3,00,000 has been made in the revised estimate for the Tungabhadra Project - Left Bank, Munirabad vide Item II-5 of Estimate 'A'.

The bill of the Naval Authorities has not yet been received. However it was necessary for this department to arrange for the boarding and lodging of the team immediately on their arrival at Munirabad on 14-5-59. It was understood also that this practice was adopted by the other authorities who had utilised their services. Hence in order to keep up their incentive (reflected in the good work turned out as already reported) necessary boarding and lodging were arranged as follows:

1. The Officer was accommodated in Lake View, Lodging charges at Re.1/- per day and boarding at Rs.4.50 per day have

88)

been paid to the Public Works Department and Maity respectively.

2. The divers were lodged in some vacant buildings and food arranged in local hotels, the charges being Rs.4.00 per head per day.

3. Tea was served at workspot both in the morning and evening.

The total expenditure in this connection has come to about Rs.800/- for the entire period from 14-5-59 to 14-6-59. I would request you kindly to obtain and communicate the sanction of Government for meeting this expenditure out of the relevent provisions in the estimate and approval for my action in having it paid out of the imprest of the Superintending Engineer (Elecl) Munirabad.

Yours faithfully,

H Narayanrao 5/6

Chief Engineer, H.E.C.P.

ED 13/8/59

PWD 52 TBE 58

89

GOVERNMENT OF MYSORE

Telephone No. { 5465 / 6841 / 6842

Telegraphic Address : "GOMED"

In Reply Refer to

No. 4/10/9/ G/ 827

Encls.

Codes Used :
BENTLEY'S LIEBER'S
A. B. C. 6th EDITION
BUSINESS TELEGRAPH CODE

OFFICE OF THE
CHIEF ENGINEER, HYDRO-ELECTRIC
CONSTRUCTION PROJECTS,
POST BAG No. 60,
RACE COURSE CROSS ROAD,

Bangalore-1, 20th August 1959.
(Mysore State, India)

GOVT. SECRETARIAT PUBLIC WORKS BRANCH
No. ES 20 AUG 1959

MYSORE GOVERNMENT SECRETARIAT
9260
21 AUG 1959
ELECTRICAL BRANCH.

The Secretary to Government,
P.W.D. and Electrical Department,
Government of Mysore,
B a n g a l o r e .

Sir,

Subject:- Deputation of Divers from the Naval Head Quarters Cochin to Tunga Bhadra Left Bank, Munirabad.

In continuation of this office letter No. G 558-59 dated 30th June, 1959, I write to inform you that there is a necessity for the diving team to work on the gates and cleaning the debris in front of the sluices at Tunga Bhadra Dam Left Bank, Munirabad from November onwards during this year also. I request you kindly to address the Naval Head Quarters at Delhi to spare the services of six divers with an officer from the Naval Head-quarters Cochin together with full equipments on the same terms they worked during the month of May and June last, for a period of four months in the first instance.

As the rectification of gates and fixing of Trash rack etc. are of an urgent nature for commissioning the units in time, early action may kindly be taken in the matter.

Yours faithfully,

H V Narayana Rao 20/8

(H.V. Narayana Rao)
CHIEF ENGINEER,
Hydro Electric Construction Projects.

Sri V.D. 21/8

The main file PWD 52 TBE 58 has been sent to F.D. on 13/8/59.

26/8 MES 26/8/59 2) F.D. may be reminded

27/8

M. G. S. App. F VI—G. 2]

SUBJECT Repairs to Stop log gates & inlet gates at Tungabhadra Dam (Left Bank) in Munirabad

Two Drafts
I Draft.

Diary No. or letter replied to I Draft

Section Elec

Serial No.

File No. PWD. 52 TBE 58

Mysore Government Secretariat

( )

the 195 .

Proceedings of the Government of Mysore

(10)
2-9-59.

P-31/CF

Date of issue P-31/CF 195

Signed by

Read— G.O. No. PWD. 52 TBE 58 dated the 8/14th Nov. 1958 sanctioning an estimate for Rs. 2.13 lakhs for repairing the Stop log gates & inlet gates at Tungabhadra Dam (Left Bank), Munirabad.

2. Letter No. 4/10/9/9-767-68 dated the 6th August 1959 from the Se. HCP.

The Se. HCP has

May this be—

(i) printed?
(ii) treated as a Standing Order?
(iii) published in the Gazette, English Part?
(iv) translated?
(v) placed at the disposal of the Press?
(vi) published in the Gazette, Kannada Part?

P-87/CF

reported that Enclosure
from dues arrived at
Munirabad on 14-5-59,
that this team was late
joined for one more stage
on 22-5-59 & that it is for
the Dept of Electricity to arrange
for the boarding & lodging
of the dismantling team, on arrival at Munirabad,
as the entire cost of the demolition
of towers is to be borne by the
Dept. It is added that
necessary boarding was
arranged as follows:-

1 to 3 on C.F.P. 57-58
the total expenditure in
this connection comes to
about Rs 5000/- & that this
period from 14-5-59 to 22-5-59

List of Enclosures.

Copied by

Examined by

M. G. S. App. F. G. 3]

MYSORE GOVERNMENT

SECRETARIAT.

(Continuation sheet draft form).

He therefore requests ~~for~~ sanction of Govt. for meeting this expenditure out of the relevant provisions in the sanctioned estimate & approval to the action taken by him in having paid the amount out of the imprest of the Supdtg. Engineer (Elect.) Bunka

---

Order No. PWD 52 TBF 58

Bg. Aug. 1959

Sanction is accorded to the amount of Rs 800/- (in words) being the Catering & Lodging Charges of the Naval team deputed by the Govt of India to Bimrabad being debited to the relevant provision

WD 03737-GPB—PZS—50,000—1-3-56.

95

PROCEEDINGS OF THE GOVERNMENT OF MYSORE

Subject: Repairs to Stop Log gates and inlet gates at Tungabhadra Dam (Left Bank) Munirabad.

Read -

G.O.No.PWD 52 TBS 58, dated the 8/14th November 1958 sanctioning an estimate for Rs.2.13 lakhs for repairing the stop log gates and inlet gates at Tungabhadra Dam (Left Bank), Munirabad.

2. Letter No.4/10/9/C/767-68 dated the 6th August 1959 from the Chief Engineer, Hydro Electric Construction Projects.

The Chief Engineer, Hydro Electric Construction Projects has reported that one officer and four divers arrived at Munirabad on 14th May 1959, that this team was later joined by one more diver on 22nd May 1959 and that it is for the Department of Electricity to arrange for the boarding and lodging of the diving team on arrival at Munirabad as the entire cost of the deputation of divers is to be borne by the Department. It is added that necessary boarding were arranged as follows:-

1) The Officer was accommodated in Lake View Lodging charges at Re.1/- per day and boarding at Rs.4.50 per day have been paid to the Public Works Department and Mainty respectively.

2) The divers were lodged in some vacant buildings and food arranged in local hotels, the charges being Rs.4.00 per head per day.

3) Tea was served at works-spot both in the morning and evening

the total expenditure in this connection coming to about Rs.800/- for the entire period from 14th May 1959 to 14th June 1959. He therefore requests sanction of Government for meeting this expenditure out of the relevant provisions in the sanctioned estimate and approval to the action taken by him in having paid the amount out of the imprest of the Superintending Engineer (Electrical), Munirabad.

G.O.R.T.P.D 52 TBS 58.

Dated Bangalore the 10th September 1959.
Bhadrapada 19 Saka era 1881.

Sanction is accorded to the amount of Rs.800/- (Rupees eight hundred only) being the catering and lodging charges of the Diving team deputed by the Government of India to Munirabad, being the expenditure debited to the relevant provisions in the estimate for Rs.2.13 lakhs sanctioned in G.O.No.PWD 52 TBS 58, dated the 14th November 1958 read in para 1 above.

The action of the Chief Engineer, Hydro Electric Construction Projects in having paid the amount out of the imprest of the Superintending Engineer (Electrical) Munirabad is also approved.

By Order and in the name of the
Governor of Mysore,

(Thomas Chudd n)
Under Secy. to Govt.

Appendix F. G.—1]

SUBJECT Tungabhadra H.E. Project (Left Bank) Munirabad - Loan of Engineers from Naval Headquarters

Frm Drafts

II Draft.

Diary No. of letter replied to .....

Section Elect.

File No. PWD 52 TBE 58.

Serial No.

(3) 7/9/54 Mysore Government Secretariat.

( )

the 195 .

No.

To

Date of issue.....

The Secretary to the Govt. of India, Ministry of Defence New Delhi

Signed by.....

Sir,

In continuation of this Govt. letter No. PWD. 52 TBE 58 dated the 28th July 1954, I am directed to state that there is a necessity for the diving team to work on the gates & clearing the debris in front of the sluices at Tungabhadra

CFP 86

List of enclosures .....

Copied by.....

Examined by .....

98)

Dam (Left Bank), Nuwabad

from November onwards during
this year also and the services
of the naval team will be required
for a further period of four
months in the first instance.
I am, therefore, to request you
kindly to move the Govt.
of India to spare the services
(Six divers with an officer from Naval Headquarters, Cochin)
of the Naval team together with full equipments
on the same terms as they were lent previously,
Nuwabad for a period
in the first instance
of four months. The Govt.
are unable to meet their claims.
An early reply will be much appreciated.

By order,

Dy. Secretary to Govt.
Revenue Dept.

Memo.

Copy to the Collr. Ktm for information
with reference to his letter No. C 827
4 2015/59. The date from which the team will
be required to work may be intimated.

Under Secretary to Govt.
Revenue Dept.

29/3/59

99)

GOVERNMENT OF MYSORE

No. PWD 52 TEB 58

Mysore Government Secretariat,
VIDHANA SOUDHA.

Dated, Bangalore, 19 September 1959.
Bhadrapada 27 Saka Era 1881.

FROM

The Deputy *Secretary to the Government of Mysore,*
Electrical Department.

To

The Secretary to the Government of India,
Ministry of Defence, New Delhi.

Sir,

Subject: Tungabhadra Hydro Electric Project (Left Bank)
Munirabad - Loan of Diving suits from
Naval Headquarters.

- - -

In continuation of this Government's letter No.PWD 52 TBE 58, dated the 28th July 1959, I am directed to state that there is a necessity for the diving team to work on the gates and clearing the debris in front of the sluices at Tungabhadra Dam (Left Bank), Munirabad from November onwards during this year also and the services of the naval team will be required for a further period of four months in the first instance. I am therefore to request you kindly to move the Government of India kindly to spare the services of the Naval team (six divers with an officer) from the Naval Headquarters, Cochin together with full equipments on the same terms as they were lent previously for a period of four months in the first instance. The Government of Mysore are agreeable to meet their charges.

An early reply will be much appreciated.

Yours faithfully,

Sd. (D.S.Raghavendrachar)
Deputy Secretary to Government
Electrical Department.

(continued)

mab.3)

100)

Memo No.PWD 52 TBB 59.

Dated Bangalore the 10 September 1959.

Copy of the above is forwarded to the Chief Engineer, Hydro Electric Construction Projects, Bangalore for information with Reference to his letter No.G.827 dated the 20th August 1959. The date from which the team will be required to work may be intimated.

(Mohammed Fasihuddin)
Under Secretary to Government
Electrical Department.

(101)

GOVERNMENT OF MYSORE

Telephone No. { 5465 / 6841 / 6842

Telegraphic Address : "GOMED"

In Reply Refer to

No. Gn 917-20

Enclo.

Codes Used :
BENTLEY'S LIEBER'S
A. B. C. 6th EDITION
BUSINESS TELEGRAPH CODE

OFFICE OF THE
CHIEF ENGINEER, HYDRO-ELECTRIC
CONSTRUCTION PROJECTS,
POST BAG NO. 60,
RACE COURSE CROSS ROAD,
Bangalore-1, 11 September 59.
(Mysore, S. India)

MYSORE GOVERNMENT SECRETARIAT
NO. 15
1 2 SEP
PUBLIC WORKS BRANCH

MYSORE GOVERNMENT SECRETARIAT
10056
14 SEP 1959
ELECTRICAL BRANCH

The Secretary to Government,
P.W. and Electrical Departments,
Vidhana Soudha,
Bangalore 1.

Sir,

Tungabhadra Hydro Electric Project (Left Bank) Munirabad - Assistance of Diving Team during the next working season - End of October 1959.

TRK V.D.

CFP 86

In inviting your kind reference to correspondence ending with your letter No.PWD 52 TBE 58 dated 28th July 1959 addressed to the Secretary to Government of India, Ministry of Defence, New Delhi, I write to state that the next working season is fast approaching. It is considered that the conditions at Munirabad would allow the taking up of the job by the end of October 1959. I would, therefore, request you kindly to address the Secretary to the Government of India, Ministry of Defence and also the Naval Head Quarters to make arrangements for deputing the same Naval Unit for taking up the balance of works which were left over on account of the starting of the monsoon season. Since this is the only working season before the scheduled date for commissioning the Munirabad Generating Station, it is necessary that all possible works necessary for commissioning the plant should be completed during this season alone. The other works not connected with the servicing of the generating station, if any left over, may be taken up during the next season.

The details of the works yet to be carried out have

P.T.O.

already been reported in the Note enclosed to this office letter No.G/558-59 dated 30th June 1959.

Yours faithfully,

(H.V. Narayana Rao)
Chief Engineer, H.E.C.P.

GOVERNMENT OF MYSORE

Telephone No. { 6841 / 6842

Telegraphic Address : "GOMED"

In Reply Refer to

No. 4/10/9/AG/925

Enclo.

Codes Used :
BENTLEY'S LIEBER'S
A. B. C. 6th EDITION
BUSINESS TELEGRAPH CODE

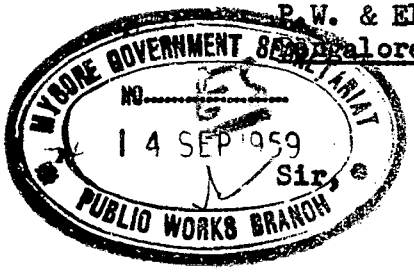
OFFICE OF THE
CHIEF ENGINEER, HYDRO-ELECTRIC
CONSTRUCTION PROJECTS,
POST BAG NO 60,
RACE COURSE CROSS ROAD,

Bangalore-1, 7th September 59.
(Mysore, S. India)

103)

12.

The Secretary to the
Government of Mysore,
P.W. & Electrical Department,
Bangalore.



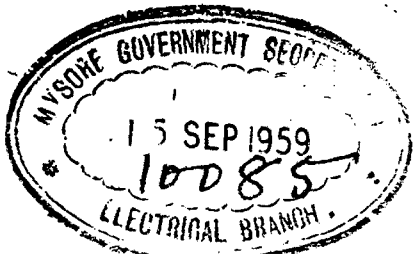
Sir,

Sub: Deputation of Divers from the Naval Head Quarters, Cochin, to Tungabhadra Left Bank, Munirabad.

I write to invite your kind reference to this office letter No.G/827 dated 20th August 1959 and request you kindly to address the Naval Head Quarters at New Delhi regarding the divers required for the Tungabhadra Left Bank, Munirabad, at an early date.

Yours faithfully,

Chief Engineer, HCP. 11/9



M. G. S. App. F. G. 3]

MYSORE GOVERNMENT

SECRETARIAT.

(*Continuation sheet draft form*).

104

Subject: T.B.H.E.P (Loan Bank) Sanction of loan & drawing note for Naval Ka. - Loan.

No. RD 52 TBE 58.

(21/22/9/58)

To

The Secretary to the Govt. of India, Ministry of Defence, New Delhi.

Sir,

I am directed to invite reference to this Govt's letter No. RD 52 TBE 58 dt. 6/10/9/58 on the above subject & to request you kindly to sanction the release of the Naval team from the Naval Headquarters with full equipments, for a further period of

105)

~~your Quarters. Thes can't~~
will have to be made
pursuing the development of ~~the~~ ce
by the end of October, 1959.
~~I am sure you will~~

Yours

Yours Sincerely,
Asst. Supt

~~Asst~~
21/9/59 21/9

GOVERNMENT OF MYSORE

106

No.PWD 52 TBE 58.

Mysore Government Secretariat,
VIDHANA SOUDHA.
Dated, Bangalore, 22 September 1959.
Bhadrapada 31 Saka Era 1881.

FROM

The Under Secretary to the Government of Mysore.
Electrical Department.

To

The Secretary to the Government of India,
Ministry of Defence,
New Delhi.

Sir,

Subject: Tungabhadra Hydro Electric Project (Left Bank) Munirabad - Naval Team - Loaning.

- - -

I am directed to invite reference to this Government's letter No.PWD 52 TBE 58, dated the 10th September 1959 on the above subject and to request you kindly to spare the services of the Naval team from the Naval Headquarters with full equipments, for a further period of four months. This work will have to be undertaken during this working season i.e. by the end of October 1959.

Yours faithfully,

(Mohammed Fasihuddin)
Under Secretary to Government
Electrical Department.

mab.2)

GOVERNMENT OF MYSORE

107)

Telephone No. { 5465 / 6841 / 6842
Telegraphic Address : "GOMED"
In Reply Refer to

No. G/1035

Enclo.

Codes Used :
BENTLEY'S LIEBER'S
A. B. C. 6th EDITION
BUSINESS TELEGRAPH CODE

OFFICE OF THE
CHIEF ENGINEER, HYDRO-ELECTRIC
CONSTRUCTION PROJECTS,
POST BAG NO. 60,
RACE COURSE CROSS ROAD,
Bangalore-1, 6th October 1959.
(Mysore, S. India)

The Secretary to Government,
Electricity Department,
BANGALORE.

S i r,

Mr. U.D.

Sub: Diving operations at the Tungabhadra Left Bank, Munirabad.

CFR-99

With reference to your letter No. PWD 52 TEB 58 dated 10th September 1959, addressed to the Ministry of Defence, New Delhi, and copied to this office, I write to state that it is desirable to have the diving team to work at Munirabad some time during the middle of November 1959.

Yours faithfully,

(M.V.A. Setty) 6/10/59
CHIEF ENGINEER, HCP., I/C.

GOVERNMENT OF MYSORE.

108

Tele phone No.
Telegraphic Address: "GOMED"
In Reply Refer to
No. 4/10/9/6/10.37-39 aie
Enclo.
Codes Used:
BENTLEY'S LIEBER'S
A. B. C. 6th EDITION
BUSINESS TELEGRAPH CODE

OFFICE OF THE
CHIEF ENGINEER, HYDRO-ELECTRIC
CONSTRUCTION PROJECTS,
POST BAG NO. 60,
RACE COURSE CROSS ROAD,
Bangalore-1, 6th October 1959
(Mysore, S. India)

MYSORE GOVERNMENT SECRETARIAT
10881
8 OCT 1959
ELECTRICAL BRANCH

The Secretary to Government,
Public Works and Electrical Department,
Government of Mysore, Bangalore 1.

Sir,

Sub: Training of Diving Personal for the Hydro-Electric Project Works.

Re. V.D.

I write to state that orders for the supply of a diving equipment have been placed with M/s. Burn & Co. Ltd., Calcutta 1, for the use of this Department. It is learnt from the firm that the equipment is despatched from England and the same is expected shortly. As the diving operations have to be done at depths of 60-ft. to 80-ft. in water, it is necessary to get two persons of this Department trained in diving operations. The Commodore in charge of Naval Head Quarters, Cochin was requested in this office letter No. 10420-21 dated 18th August 1959 (copy enclosed) kindly to intimate the terms and conditions etc. for giving training to men of this Department. The Commodore in his letter No.TR.360/45/10372 dated 29th September 1959 (copy enclosed herewith for kind reference) has informed that the Chief of Naval Staff, Naval Head Quarters, New Delhi, has to be approached through the ministry concerned for the trainigof Divers in the TAS School, Naval Base, Cochin.

I would therefore request you kindly to address the Secretary to Government of India, Ministry of Defence, in the matter and secure necessary permission for training two persons of this Department in the diving operations at TAS School, Naval Base Cochin.

Yours faithfully,

(M.V.A.Setty)
Chief Engineer, I/C, H.C.P.

109

Letter No.TR:360/45/10372 dated 29th September 1959 from the Commodore, Navy Office, Cochin-4, to the Chief Engineer, Hydro-Electric Construction Projects, Bangalore 1.

--

TRAINING OF THE DIVING PERSONNEL.

--

With reference to your letter No.4/10/9/10420-21 dated 14th/18th August 1959, it is requested that the Chief of the Naval Staff, Naval Headquarters, New Delhi, be approached through the Ministries concerned for the training of your Divers at the Diving Section of TAS School, Naval Base, Cochin.

"C O P Y"

K. S. Subrahmanyam 6/10

PR. Chief Engineer, I/C, HCP.

M. G. S. App. F. G. 3]

MYSORE GOVERNMENT

SECRETARIAT.

(*Continuation sheet draft form*).

110

Subject:- TBHES (Left Bank) Mundabad Naval Team - Loaning.

To

The Secretary to the GOI
Ministry of Defence,
New Delhi.

No. PWD 52 TBE 58

(3)
6/10/59

Sir,

I am directed to invite reference to Govt's letter No. PWD 52 TBE 58 dated the 10th September 1959 on the above subject and to state that it is ~~desirable~~ necessary to have the diving team to work at Munabad sometime during the middle of November 1959. I am therefore to request you kindly to issue immediate

WD 0258—GPB—PZS-1,20,000—1-7-55.

orders for sparing the services
of the Naval Team from the
Naval Headquarters with full
equipment for a period of four
divers in the air mosquito
2. I am to add that
orders for the supply of diving
equipment have been placed
with H/S Burn & Co. Ltd, Calcutta
for the use of HECP Dept that
it is learnt that the equipment
has been despatched from England & is
expected shortly. As the diving
operations have to be done at depths of
60 ft. to 80 ft. in water, it is
necessary to get two persons
of the HECP Dept trained in diving
operations. I am therefore to
request you kindly to authorise
the Commodore in charge
of Naval Headquarters, Cochin
to arrange for the training
of the two persons of the HECP Dept
at TAS School, Naval Base, Cochin
(from) shortly. The term of 2 months for the
2 persons may be increased

I am to ask you kindly

M. G. S. App. F. G. 3]

MYSORE GOVERNMENT

SECRETARIAT.

(*Continuation sheet draft form*).

112

Copy to the B.B.H.C.P.
for information with
reference to his letter
No. G. 1037-39 dt. 7/10/59.

Under Secy. Med. Dept.

MLS
8/10/59

WD 0258—GPB—PZS-1,20,000—1-7-55.

113

GOVERNMENT OF MYSORE

No. PWD 52 TBE 58.

Mysore Government Secretariat,
VIDHANA SOUDHA.
Dated, Bangalore, 16th October *195* 9
Asvija 24 Saka Era 1881.

FROM

The Under *Secretary to the Government of Mysore.*
Electrical Department.

To

The Secretary to the Government of India,
Ministry of Defence,
New Delhi.

Sir,

Subject: Tungabhadra Hydro Electric Project (Left Bank), Munirabad - Naval Team - Loaning.

- - -

I am directed to invite reference to this Government's letter No.PWD 52 TBE 58, dated the 10th September 1959 on the above subject and to state that it is necessary to have the diving team to work at Munirabad sometime during the middle of November 1959. I am therefore to request you kindly to issue immediate orders for sparing the services of the Naval Team from the Naval Headquarters with full equipments for a period of four months in the first instance.

2. I am to add that orders for the supply of diving equipment have been placed with Messrs. Burn & Co., Ltd., Calcutta for the use of the Hydro Electric Constructions Projects Department and that it is learnt that the equipment has been despatched from England and is expected shortly. As the diving operations have to be done at depths of 60 feet to 80 feet in water, it is necessary to get two persons of the Electrical Department trained in diving operations. I am therefore to request you kindly to authorise the Commodore in charge of Naval Headquarters, Cochin to arrange for the training of two persons of the Electrical Department at T.A.S. School, Naval Base, Cochin. The terms and conditions of the training may kindly be intimated.

Yours faithfully,

Sd. (Mohammed Fasihuddin)
Under Secretary to Government
Electrical Department.

(continued)

114)

No.PWD 52 TEE 58.

Dated Bangalore the 16 October 1959

Copy of the foregoing is forwarded to the Chief Engineer, Hydro Electric Constructions Projects, Bangalore for information with reference to his letter No.G 1037-39, dated the 7th October 1959.

(Mohammed Fasihuddin)
Under Secretary to Government
Electrical Department.

mab.3)

GOVERNMENT OF MYSORE

115)

Telephone No. { 5465 / 6841 / 6842
Telegraphic Address : "GOMED"

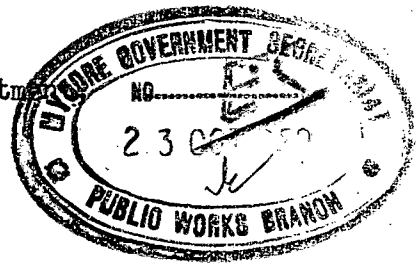
In Reply Refer to
No. 4/10/9 G/1133-35
Enclo.

Codes Used :
BENTLEY'S LIEBER'S
A. B. C. 6th EDITION
BUSINESS TELEGRAPH CODE

OFFICE OF THE
CHIEF ENGINEER, HYDRO-ELECTRIC
CONSTRUCTION PROJECTS,
POST BAG NO. 60,
RACE COURSE CROSS ROAD,
Bangalore-1, 22nd October 1959
(Mysore, S. India)

23

The Secretary to the
Government of Mysore,
P.W. & Electrical Department,
Government of Mysore,
Bangalore.



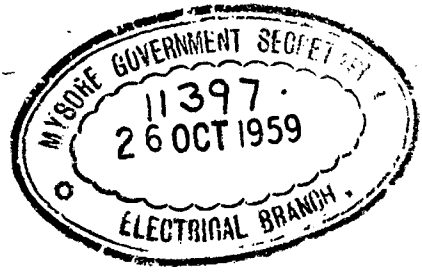
Sir,

Subject: Diving operations at Tungabhadra Left Bank, Munirabad.

I write to invite kind reference to this office letter No.G/1035 dated 6/7th October 1959 and request you kindly to arrange to obtain the services of the diving team for work at Munirabad by the middle of November 1959, as the work has to be pushed through rapidly during this working season.

Yours faithfully,

Chief Engineer, HCP. 23/10



GOVERNMENT OF MYSORE

116

Telephone No. { 5465 / 6841 / 6842

Telegraphic Address : "GOMED"

In Reply Refer to

No. 4/10/9/ G/1130-32

Enclo.

Codes Used :
BENTLEY'S LIEBER'S
A. B. C. 6th EDITION
BUSINESS TELEGRAPH CODE

OFFICE OF THE
CHIEF ENGINEER, HYDRO-ELECTRIC
CONSTRUCTION PROJECTS,
POST BAG NO. 60,
RACE COURSE CROSS ROAD,

Bangalore-1, 22nd October 19 59.
(Mysore, S. India)

23

MYSORE GOVERNMENT SECRETARIAT
11398
26 OCT 1959
ELECTRICAL BRANCH.

The Secretary to the
Government of Mysore,
P.W. & Electrical Department,
Government of Mysore,
Bangalore.

MYSORE GOVERNMENT SECRETARIAT
NO. EC
23 OCT
PUBLIC WORKS BRANCH

Sir,

Subject: Training of Diving personnel for the Hydro Electric Project Works.

I write to invite kind reference to this office letter No.G 1037-39 dated 7th October 1959 and request you kindly to address the Secretary to Government of India, Ministry of Defence for securing necessary permission for training two persons of this department at the naval base, Cochin.

Yours faithfully,

H. Narayana Rao 23/10
Chief Engineer, HCP.

Mr. VD

GOVERNMENT OF MYSORE

116

Telephone No. { 5465 / 6841 / 6842
Telegraphic Address : "GOMED"
In Reply Refer to
No. G/1200-201
Enclo.
Codes Used :
BENTLEY'S LIEBER'S
A. B. C. 6th EDITION
BUSINESS TELEGRAPH CODE

OFFICE OF THE
CHIEF ENGINEER, HYDRO-ELECTRIC
CONSTRUCTION PROJECTS
POST BAG No. 60,
RACE COURSE CROSS ROAD,
Bangalore-1, (Mysore, S. India)

November 19 59.

PUBLIC WORKS BRANCH

MYSORE GOVERNMENT SECRETARIAT 1953 14 NOV 1959 ELECTRICAL BRANCH

The Secretary to Government,
P.W. and Electrical Departments,
Bangalore 1.

Sir,

Tungabhadra Hydro Electric Project - Left Bank - Munirabad - Loaning of the Naval Team.

I write to invite your kind reference to your letter No.PWD 52 TBE 58 dated 24th October 1959 addressed to the Secretary to Government of India, Ministry of Defence, New Delhi, regarding the above and to state that we have only one working season in which the work required to be done by the Naval Team has to be got completed. The work is of an extremely urgent nature and any delay in attending to this work will result in postponement of the date of commissioning of the Generating Units. I therefore

P.T.O.

118)

GOVERNMENT OF MYSORE

No.PWD 52 TBE 58

Mysore Government Secretariat,
VIDHANA SOUDHA.

Dated Bangalore, 18th November 1959.
Kartika 27 Saka Era 1881.

FROM

The Under *Secretary to the Government of Mysore,*
Electrical Department.

To

The Secretary to the Government of India,
Ministry of Defence,
New Delhi.

Sir,

Subject: Tungabhadra Hydro Electric Project (Left Bank)
Munirabad -- Naval Team - Loaning

I am directed to invite reference to this Government's letter No.PWD 52 TBE 58 dated the 16th October 1959 on the above subject. The Chief Engineer, Hydro Electric Construction Projects has reported that there is only one working season in which the work required to be done by the Naval Team has to be got completed and that the work is of an extremely urgent nature and any delay in attending to this work will result in postponement of the date of commissioning of the Generating units and to therefore request you kindly to issue immediate orders for sparing the services of the Naval Team from the Naval Headquarters with full equipments for a period of four months in the first instance.

Yours faithfully,

Sd.(Mohammed Fasihuddin)
Under Secretary to Government
Electrical Department.

Memo No.PWD 52 TBE 58.

Dated Bangalore the 18th November 1959.

Copy of the above is forwarded to the Chief Engineer, Hydro Electric Construction Projects, Bangalore for information with reference to his letter No.4/10/9/G/1130-32 dated 22/23-10-1959.

(Mohammed Fasihuddin)
Under Secretary to Government
Electrical Department.

GOVERNMENT OF MYSORE

NG

Telephone No. { 5465 / 6841 / 6842
Telegraphic Address : "GOMED"

In Reply Refer to

No. 4/10/9/G/1234

Enclo.

Codes Used :
BENTLEY'S LIEBER'S
A. B. C. 6th EDITION
BUSINESS TELEGRAPH CODE

OFFICE OF THE
CHIEF ENGINEER, HYDRO-ELECTRIC
CONSTRUCTION PROJECTS
POST BAG NO. 60,
RACE COURSE CROSS ROAD,
Bangalore-1, 21 November 19 59.
(Mysore, S. India)

The Secretary to Government,
P.W. and Electrical Department,
Government of Mysore,
Vidhana Soudha,
Bangalore.

Sir,

Training of Diving personnel for the Hydro Electric Project Works.

I write to invite kind reference to this office letter No.4/10/9/G/1130-32 dated 23rd October 1959 and request you kindly to address the Secretary to Government of India, Ministry of Defence for securing necessary permission for training two persons of this department at the Naval Base, Cochin.

Yours faithfully,

H.V. Narayana Rao

(H.V. Narayana Rao)
Chief Engineer, HECP

120)

GOVERNMENT OF MYSORE

No. PWD 52 TBE 58.

Mysore Government Secretariat,
VIDHANA SOUDHA.
Dated, Bangalore, 26th November 1959.
Margasira 5 Saka Era 1881.

FROM

The Under Secretary to the Government of Mysore.
Electrical Department,
Bangalore.

To

The Secretary to the Government of India,
Ministry of Defence,
NEW DELHI.

Sir,

Subject:-Tungabhadra Hydro Electric Project (Left Bank), Munirabad - Naval Team - Loaning.

***

I am directed to invite reference to para 2 of this Government's letter No.PWD 52 TBE 58 dated the 16th October 1959 on the above subject, and to request you kindly to authorise the Commodore in-charge of Naval Headquarters, Cochin, to arrange for the training of two persons of the Electrical Department at T.A.S. School, Naval Base, Cochin. The terms and conditions of the training may kindly be intimated.

Yours faithfully,

Sd/-

(Mohamed Fasihuddin)
Under Secretary to Government,
Electrical Department.

Memo No.PWD 52 TBE 58.

Bangalore, Dated the 26 November, 1959.

Copy of the above is forwarded to the Chief Engineer, Hydro-Electric Construction Projects, Bangalore, for information, with reference to his letter No.4/10/9/G/1234 dated the 21st November, 1959.

20/11/59

(Mohamed Fasihuddin)
Under Secretary to Government,
Electrical Department.

ks.

No.EL-I-15(76)/59
Government of India,
Ministry of Irrigation & Power.

From

Shri N.S. Vasant,
Officer on Special Duty.

To

The Secretary to the Government of Mysore
Electrical Department,
Bangalore.

Dated New Delhi, the 1st December, 1959.

Subject: Tungabhadra hydro-electric Project (Left Bank) Munirabad - Loan of diving suits from Naval Headquarters.

Sir,

I am directed to refer to your letter No.PWD 52 TEB 58 dated the 10th September, 1959, on the subject cited above, addressed to the Ministry of Defence, and to say that the request made by the Government of Mysore has been considered by the Ministry of Defence, in consultation with Naval Headquarters. They have stated that due to the early commencement of the Jet Exercises in February, 1960, and other important operational commitments, it will not be possible for them to spare a Naval Diving Team for the Tungabhadra Project till March, 1960, when the position would be further reviewed.

Yours faithfully,

(N.S. Vasant)
Officer on Special Duty.

122)

Copy of letter No.EL-I-15(76)/59 dated the 21st December, 1959 from the Officer on Special Duty, Ministry of Irrigation & Power, New Delhi.

Subject:-Tungabhadra hydro-electric Project (Left Bank) Munirabad - Loan of diving suits from Naval Headquarters.

I am directed to refer to your letter No.PWD 52 - TBE 58 dated the 10th September 1959, on the subject cited above, addressed to the Ministry of Defence, and to say that the request made by the Government of Mysore has been considered by the Ministry of Defence, in consultation with Naval Headquarters. They have stated that due to the early commencement of the Jet Exercises in February, 1960, and other important operational commitments, it will not be possible for them to spare a Naval Diving Team for the Tungabhadra Project till March, 1960, when the position would be further reviewed.

Memo No.PWD 52 TBE 58.

Bangalore, Dated the 9/15 December,'59.
Margasira 18 Saka Era 1881.

Copy of the above is forwarded to the Chief Engineer, Hydro Electric Construction Projects, for information.

9c 8/12/59
(Mohamed Fasihuddin)
Under Secretary to Government,
Electrical Department.

ks/-

Copy of letter No.EL-I-15(76)/59 dated the 1st December 1959 from the Officer on Special Duty, Ministry of Irrigation & Power, New Delhi.

Subject: Tungabhadra hydro-electric Project (Left Bank) Kunirabad - Loan of diving suits from Naval Headquarters.

I am directed to refer to your letter No.P D 52 - TBS 58 dated the 19th September 1959, on the subject cited above, addressed to the Ministry of Defence, and to say that the request made by the Government of Mysore has been considered by the Ministry of Defence in consultation with Naval Headquarters. They have stated that due to the early commencement of the Jet Exercises in February, 1960 and other important operational commitments, it will not be possible for them to spare a Naval Diving Team for the Tungabhadra Project till March, 1960, when the position would be further reviewed.

Memo No.P D 52 TBS 58 Bangalore, dated 9th December 1959
Margasira 18 Saka Era 1881.

Copy of the above is forwarded to the Chief Engineer, Hydro-electric Construction Projects, for information.

OSD

MYSORE GOVERNMENT SECRETARIAT
No. ES
1 - DEC
PUBLIC WORKS BRANCH

Memo No. 20089-96

sd. Mohamed Fasihuddin
Under Secretary to Government,
Electrical Department.
16/ December 1959

1. Copy to the Members, Electrical Sub-Committee, HCP for information.
2. Copy to the Secretary, Hydro Electric Construction Projects' Board Bangalore for information.
3. Copy to the Superintending Engineer (Elect.) H.E.C.P. Kunirabad for information.
4. Copy to the Executive Engineer (Civil) HCP Kunirabad for infn.

MYSORE GOVERNMENT SECRETARIAT
73230
17 DEC 1959
ELECTRICAL BRANCH

Chief Engineer, HECP 16/12

C/- SVD 20/12

Submitted for perusal. May be filed in the connected file.

18/12

18/12/59

Note on the repairs of Stoplog Gates and Inlet Gates of Tungabhadra Dam Left Bank, Munirabad:

SECRETARY TO GOVERNMENT
No. T-8
-7 JAN 1960
PUBLIC WORKS & ELEC. DEPT.

On the Left Bank of Tungabhadra Dam, eight outlets(2 per machine of 10'x13'-2" are provided for supplying water to the Generating Units These outlets are of R.C.C. construction, are provided with sluice gates in front. Provision is made for putting in stoplog gates in front of main gates. The main gates are imported from Germany.

When the works where taken over by the Government of Mysore, Electrical Department, six of the main gates had been assembled and lowered and all the stoplog gates were also in position. Heavy leakages were observed from these gates. The R.C.C. curtain wall in front of the main gates was also leaking all over through concrete. Sluice vents had been pluged with masonry walls on the down stream side of the main gates to collect the leakage water and drain it out into the irrigation canal by pipes.

It was found that the stoplog gates could not be moved. The reasons for this trouble were investigated and it was found that the curtain wall was fouling the gate movement in a number of places and also lot of projecting reinforcement rods were obstructing the gates movement.

No. 257

As the work of rectifying the gates was of an urgent nature, the Tungabhadra Board authorities were requested to deplete the reservoir as far as possible and the work was also simultaneously tackled with the help of divers whose services were borrowed from the Executive Engineer, No.2, Krishna Barrange Division, Vijayawada. With the help of these divers it was possible to pull out all the stoplog gates. But in so doing it became necessary to cut out the guides laid in a number of places and also to chip out a number of bulges in the R.C.C. curtain wall.

It was found that the stoplog gates had to be modified individually for each vent. The main gates also could not operate freely.

MYSORE GOVERNMENT SECRETARIAT
737
23 JAN 1960
ELECTRICAL BRANCH

Streneous efforts were made through the Central Government and the Central Water and Power Commission to get the help of the Naval diving team in this connection. The Naval Head Quarters, Delhi, were very kind enough to depute one officer and 4-5 divers from

125

their staff at Cochin to conduct the detailed investigation regarding the condition of the stoplog gates, curtain wall and the sill level of the gates in front of the power sluices.

The first job tackled by the Naval team with the Naval Officers was the investigation of the actual condition of the stop log gate grooves, condition of the curtain wall on the reservoir face and the sill of the gates. This work was carried out vent by vent noting down the reports of the divers after each dip. It was found generally that debris that was lying at the sill of the stop log gate was from 3 feet to 7½ feet depth. The debris was extending from the intake gate to the end of the bell mouth on the reservoir side. Even at the foot of the trash rack frame works, there was about 2 feet of debris. During the investigation soundings were taken in front of the trash rack for about a length of 100 feet from the Dam face to ascertain whether the approach had been sufficiently cleared. It was found that there was about 1½ feet to 2 feet silt and debris above the sill level of the gates. It was necessary that this should be cleared sufficiently to prevent the silt and debris coming into the machine and the possible wearing out of the RUNNers. Since the job immediately to be tackled was to lower the stop log gates, only about 3' width of debris just in front of the stop log go to sill were cleared. This was due to limitation of time due to approach of monsoon.

The curtain wall on the reservoir side which was obstructing the movement of the stop log gates due to bulging unevenly was rectified by chipping the concrete. During the period the Naval team was working they removed enough debris to clear the sill, removed projecting rods, clearing the sill by chipping the concrete, checking all measurements and sealing surface which enabled for the modification of the stop log gates for lowering them in position. The works that are yet to be carried out with the help of the diving team during this season before servicing of the machines are:

4) Clearing the debris from preparing the approach to pre-
sent debris coming into the machine while the operation
units are starting after

5) Lifting up trash racks under water,

6) Attending to No.7, 8, 9 and 10 gates,

7) Replacing the missing rails under water,

8) Painting and protecting the trash racks frame work
under water,

9) Protecting exposed reinforcement rods on the up-stream
face of curtain wall below RL 1500.00.

Due to the above facts, a letter of No.C.217-30 dated 11th September 1959 has been addressed to Government stressing the need for Naval Team at Munirabad before commissioning the units. The Government have referred this matter to the Secretary, Ministry of Defence, New Delhi in their letter No.PWD 52 IRR 58 dated 10th Oct. 1959. It is needless to say that unless and until a diving team come again during this working season and clear the debris and fix the trash racks and attend to all operations under water it may not be possible to commission the units that are being installed at the T.B.Dam left bank power house.

The Govt. have forwarded a copy of the letter No. PL-I-15(76)\59 dated 1st December 1959 from the Officer on Special Duty, Ministry of Irrigation and Power, New Delhi wherein it is stated that due to the early commencement of the let exercised in February 1960, it would not be possible for them to spare a Naval Diving team for the Tungabhadra project will March 1960 and that too the position would be reviewed. In this connection it is to be reported that there is absolute necessity for the diving team to work from right up from now along as the works involved are very heavy and it would not be possible to complete it if they commence the same from March 1960 as it would be very difficult to conduct diving operations when the river is in floods and water muddy.

Therefore, it is requested to use your good offices for stressing the need for the diving team immediately for Tungabhadra Dam, Munirabad.

Yours faithfully,
Executive Engineer,

(12)

GOVERNMENT OF MYSORE

D.K.Srinivasachar, IAS.,
Secretary to Govt.,
P.W. & Electricity Department.

(Camp) New Delhi,
Dated 30th December, 1959.

Dear Sir,

I am writing this letter with reference to the personal discussion I had with you yesterday.

The State Government are in urgent need of the services of a few divers and the necessary diving equipment from the Navy for effecting certain under-water repairs in the Tungabhadra Reservoir, so as to enable the commissioning of the Hydro-Electric Statio.. on the Munirabad side of the Project by the target date. A request was made to the Defence Ministry last year in this behalf and they were kind enough to depute divers and make available the necessary equipment from Cochin under the leadership of one Mr.Chellathayil. They did very good work; but unfortunately owing to the onset of monsoon and other urgent work, they were called back. The work had, therefore, to be suspended.

The Hydro-Electric Station at Munirabad is due to be commissioned in about a year's time, that is to say, by about December 1960. Unless repairs are effected before the commencement of the monsoon, it will not be possible to keep to the target date. The repair work is expected to take about two to three months and unless it is tackled from now, it is unlikely that it could be completed before the next monsoon commences. We had addressed the Defence Ministry recently, and they have informed that owing to other urgent engagements, the diversion of the diving team cannot be thought of until March 1960. It is feared that this would be rather late and it may not be possible to complete the work

before the commencement of the monsoon.

The Government of India would undoubtedly appreciate the necessity of conforming to the target date for completing this important project, especially at a time when Power scarcity in the State is very acute. The State Government would like to avoid at all costs any possibility of postponing of the Project. Attempts by the State Government to get divers and equipment from elsewhere in India have not been successful. The State Government would therefore be most grateful if the Defence Ministry would kindly reconsider the matter and request the Navy to depute a Diving Team with necessary equipment for work in this connection very early - if possible within a week or two - without prejudice to the legitimate work of the Team.

With best regards,

Yours sincerely,

(D.K.Srinivasachar).

Shri O.Pulla Reddy, ICS.,
Secretary to Govt. of India,
Defence Ministry,
NEW DELHI.

M.G.Kaul, ICS,
Joint Secretary.

D.O.No.25(16)/58/97/SOIII/D(N-1)
GOVERNMENT OF INDIA.
MINISTRY OF DEFENCE.
New Delhi,
22nd January 1960.

My dear Srinivasachar,

Please refer to your D.O. letter No.Camp No.20/59, dated the 30th December 1959 to the Defence Secretary regarding the loan of the services of a Naval Diving Team for effecting certain underwater repairs in the Tungabhadra Reservoir.

2. The request has again been reconsidered by this Ministry in consultation with Naval Headquarters. I am afraid all the Naval diving personnel are for the present fully committed to important operational requirements. As we had communicated to you earlier, it will unfortunately not be possible to consider sparing this team before the middle of March this year. I regret, therefore, that we will not be in a position to help the State Government out immediately in this matter. If the services of a diving team are still needed by you after the middle of March, I shall be glad if you will let me know very early.

Yours sincerely,

(M.G.Kaul)

Shri D.K.Srinivasachar, IAS,
Secretary to the Govt. of Mysore,
P.W. & Electricity Department,
Bangalore.

M. G. S. App. F. G. 3]

MYSORE GOVERNMENT

SECRETARIAT.

(*Continuation sheet draft form*).

No PWD 52 IBE 55

Subject:- Tungabhadra Hydro Electric Project (Left Bank) Supply - Loan of drowning suits from Naval Headquarters

To

The Joint Secretary to the Govt. of India Ministry of Defence New Delhi

(4 names)

Sir, Myself Kaul.

With reference to your DO letter No. 25(16) 55/97/SO III/D(N-1) dated the 29/1/60 on the above subject, I am directed to state that the services of the Naval Drowning Team will be needed in any case even after middle of

WD 03737-GPB-PZS- 50,000-1-3-56.

March 1960, if they cannot
be spared earlier. I am
to request you kindly to
arrange
~~issue orders~~ for the leaving
of the services of the Driving
Team, are required at least
after the middle of March
~~an attempt may~~ any enquiries may be made to complete
so that the work ~~could~~ be
~~Completed well~~ in advance
of the onset of the monsoon.

Yours
sincerely,

for 31/1

by Secretary to the Govt.
Revl. Dept.

Copy to the Lab. H.Q. for
information.

Under Secy to Govt
Revl. Dept

28/1

Subject:- Tungabhadra Hydro-electric Project (Left Bank), Munirabad - Loan of diving suits from Naval Headquarters.

My Dear Kaul,

(21 3/2(a)

Kindly refer to your D.O.letter No.25(16) 158/97/SO III D(N-1) dated 22nd January 1960 on the above-mentioned subject.

The services of the Naval Diving Team will most certainly be needed in any case even after or middle of March 1960, if it cannot be spared earlier. I ~~am to~~ would therefore request you kindly to arrange for the loan of the services of the Diving Team and equipment atleast after the middle of March so that every endeavour may be made to complete the work in advance of the onset of the monsoon.

Yours sincerely,

M.G.Kaul, ICS,
Joint Secretary,
Ministry of Defence,
New Delhi

D.K. SRINIVASACHAR, I.A.S.,
Secretary to Government
Public Works & Electrical Department.

MYSORE GOVERNMENT SECRETARIAT,

Dated Bangalore the 17th February 60
Magha 17 Saka Era 1881.

D.O.No.PWD 52 TBE 58.

My Dear Kaul,

Kindly refer to your D.O. letter No.25(16) 158/97/SO III D(N-1), dated 22nd January 1960 on the above-mentioned subject.

The services of the Naval Diving Team will most certainly be needed in any case even after or middle of March 1960, if it cannot be spared earlier. I would therefore request you kindly to arrange for the loan of the services of the Diving Team and equipment at least after the middle of March so that every endeavour may be made to complete the work in advance of the onset of the monsoon.

Yours sincerely,

9c

Shri M.G.Kaul, I.C.S.,
Joint Secretary,
Government of India,
Ministry of Defence,
New Delhi.

The main file has been subd. to D/S yesterday with a draft letter to the Ministry of Defence in regard to the loaning of the naval team.

29/1 Put up as soon as the file is returned back

29/1

A copy of this letter will be sent to the C-in-C HCP for remarks in the meantime.

3/29/1

29/1

1/Asst 30/1/71

No.TR-5081/NHQ/451/D(N-II) 134
Government of India,
Ministry of Defence,
New Delhi, the 21st Jantuary 1960
~~PAUSA 30~~, 1881(Saka)

To

The Chief Secretary,
Government of Mysore.

Subject:- Training of Electrical Personnel of Mysore Government in Diving Operations.

....

Sir,

I am directed to refer to para 2 of your letter No.PWD-52 TBE-58 dated the 16th October, 1959, and to state that the training of two civilians of Mysore Government in diving can be undertaken at the Naval Diving School, I.N.S. VENDURUTHY, Cochin in a course commencing from 14th March, 1960. The terms and conditions of training are detailed below:-

(a) Due to the hazardous nature of the course, Indian Navy will not accept any liability in case of injury or death.

(b) The Navy may terminate the course at any time, should the trainee be temperamentally or physically unsuitable for the duties or his conduct or behaviour necessitate his removal.

(c) The trainees will be provided messing and accommodation facilities in the abovementioned establishment.

(d) The cost of training including messing and accommodation charges will be worked out on completion of the course and the State Government would be liable to meet the entire expenditure.

(e) The trainees will be included in Diving 3 Course duration of which is 13 weeks.

(f) Diving 3 Course is not for training in diving only but also caters for familiarisation with the equipment they will use. If your Government desire to send the equipment to Diving School for familiarisation of the trainees and instructions on their use, the course may have to be extended by about 2 weeks.

(g) Any loss on account of mishandling of the Naval instruments/equipment by the trainees will be made good by the Mysore Government.

2. I am to request acceptance of your Government to the abovementioned terms. Necessary instructions to the Commodore-in-Charge, Cochin for the training of your trainees in diving will be issued on receipt of the acceptance.

3. I am further to request that the following information may please be forwarded:-

(a) Details of particular type of work the divers will be required to perform after completion of their training.

...2

No.TS-5081/NHQ/ASI/D(V-II)
Government of India,
Ministry of Defence,
New Delhi, the 31st January 1960
PAUSE 30,1231(Edn)

To

The Chief Secretary,
Government of Mysore,

Subject:- Training of Electrical Personnel of Mysore Government in Diving Operations.

....

Sir,

I am directed to refer to para 2 of your letter No.PWD-5S TBE-58 dated the 16th October, 1959, and to state that the training of two civilians of Mysore Government in diving can be undertaken at the Naval Diving School, I.N.S. VENDURUTHY, Cochin in a course commencing from 14th March, 1960. The terms and conditions of training are detailed below:-

(a) Due to the hazardous nature of the course, Indian Navy will not accept any liability in case of injury or death.

(b) The Navy may terminate the course at any time, should the trainee be temperamentally or physically unsuitable for the duties or his conduct or behaviour necessitate his removal.

(c) The trainees will be provided messing and accommodation facilities in the abovementioned establishment.

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(g) Any loss on account of mishandling of the Naval instruments/equipment by the trainees will be made good by the Mysore Government.

2. I am to request acceptance of your Government to the abovementioned terms. Necessary instructions to the Commodore-in-Charge, Cochin for the training of your trainees in diving will be issued on receipt of the acceptance.

3. I am further to request that the following information may please be forwarded:-

(a) Details of particular type of work the divers will be required to perform after completion of their training.

135

(b) Details of equipment which are being procured from U.K. on which the divers are to work.

4. I am to add that the trainees should preferably be below 28 years of age. They must, however, be medically fit for the diving training. Enclosure to this letter contains the medical standard for them. It is recommended that after carrying out the preliminary medical examination locally, the trainees should be sent to I.N.S. VENDURUTHY, Cochin for a further thorough medical examination at least a month before the commencement of training in order that the person who is not found medically fit can be replaced by another.

Yours faithfully,

(A. KRISHNASWAMY AIYANGAR)
Deputy Secretary to the Government of India.

(b) Details of equipment which are being procured from U.K. on which the divers are to work.

4. I am to add that the trainees should preferably be below 28 years of age. They must, however, be medically fit for the diving training. Enclosure to this letter contains the medical standard for them. It is recommended that after carrying out the preliminary medical examination locally, the trainees should be sent to I.N.S. VENDURUTHY, Cochin for a further thorough medical examination at least a month before the commencement of training in order that the person who is not found medically fit can be replaced by another.

Yours faithfully,

(A. KRISHNASWAMY AIYANGAR)
Deputy Secretary to the Government of India.

Letter No.TR.5081/NHQ/451/D(N-II), dated the 25th January 1960 from the Deputy Secretary to the Government of India, Ministry of Defence, New Delhi to the Chief Secretary to the Government of Mysore, Bangalore.

Subject: Training of Electrical Personnel of Mysore Government in Diving Operations.

I am directed to refer to para 2 of your letter No.PWD 52 TBE 58 dated the 16th October 1959 and to state that the training of two civilians of Mysore Government in diving can be undertaken at the Naval Diving School I.N.S. Venduruthy, Cochin in a course commencing from 14th March, 1960. The terms and conditions of training are detailed below:-

(a) Due to the hazardous nature of the course, Indian Navy will not accept any liability in case of injury or death.

(b) The Navy may terminate the course at any time, should the trainee be temperamentally or physically unsuitable for the duties or his conduct or behaviour necessitate his removal.

(c) The trainees will be provided messing and accommodation facilities in the abovementioned establishment.

(d) The cost of training including messing and accommodation charges will be worked out on completion of the course and the State Government would be liable to meet the entire expenditure.

(e) The trainees will be included in Diving 3 Course duration of which is 13 weeks.

(f) Diving 3 Course is not for training in diving only but also caters for familiarisation with the equipment they will use. If your Government desire to send the equipment to Diving School for familiarisation of the trainees and instructions on their use, the course may have to be extended by about 2 weeks.

(g) Any loss on account of mishandling of the Naval instruments/equipment by the trainees will be made good by the Mysore Government.

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3. I am further to request that the following information may please be forwarded:-

(a) Details of particular type of work the divers will be required to perform after completion of their training.

(b) Details of equipment which are being procured from U.K. on which the divers are to work.

4. I am to add that the trainees should preferably be below 28 years of age. They must, however, be medically fit for the diving training. Enclosure to this letter contains the medical standard for them. It is recommended that after

(37)

carrying out the preliminary medical examination locally, the trainees should be sent to I.N.S. VENDURUTHY Cochin for a further thorough medical examination at least a month before the commencement of training in order that the person who is not found medically fit can be replaced by another.

Memo No.PWD 915/E1/60

Dated Bangalore the 30 January 1960.

Copy of the above is forwarded to the Chief Engineer, Hydro Electric Construction Projects, Bangalore for favour of remarks.

(Mohammed Fasihuddin)
Under Secretary to Government
Electrical Department.

mab.2)

GOVERNMENT OF MYSORE

135

Telephone No. { 5465 / 6841 / 6842

Telegraphic Address : "GOMED"

In Reply Refer to

No. G/1575

Enclo.

Codes Used :
BENTLEY'S LIEBER'S
A. B. C. 6th EDITION
BUSINESS TELEGRAPH CODE

MYSORE GOVERNMENT SECRETARIAT
TAPPAL SECTION
11 FEB 1960
SECTION
PUBLIC WORKS DEPARTMENT

OFFICE OF THE
CHIEF ENGINEER, HYDRO-ELECTRIC
CONSTRUCTION PROJECTS,
POST BAG NO. 60,
RACE COURSE CROSS ROAD,
Bangalore-1, 10th February 1960.
(Mysore, S. India)

11

The Under Secretary to the Government,
Electrical Department,
BANGALORE.

Sir,

13 FEB 1960
ELECTRICAL BRANCH

Subject: Training of Electrical Personnel of Mysore Government in Diving operations.

With reference to your letter No. PWD 915/El./60, dated 30th January 1960, forwarding therein a copy of letter No.TR.5081/NHQ/451/D(N-II), dated 25th January 1960, received from the Deputy Secretary to the Government of India, Ministry of Defence, New Delhi, In connection with the above, I write to request you kindly arrange to send the enclosure containing the Medical Standard for carrying out the preliminary medical examination etc., as the same is not received along with the above letter.

Yours faithfully,

Shamanna A.S.

CHIEF ENGINEER,
Hydro-Electric Construction Projects, I/c.

GOVERNMENT OF MYSORE

139

No. PWD 52 TBE 58

Mysore Government Secretariat,

Dated, Bangalore, 22 February 1960.
Magha – SakaEra 1881.

ENDORSEMENT.

From

The Under Secretary to Government of Mysore,
Electrical Department.

To

The Chief Engineer,
Hydro Electric Construction Projects, Bangalore.

Sir,

Subject: Training of Electrical Personnel of Mysore Government in Diving operations.

With reference to your letter No.G/1575 dated the 10/11th February 1960 on the above subject, I am directed to forward herewith the enclosure containing the Medical Standard for crrying out preliminary medical examination etc. as desired.

Yours faithfully,

(Mohammed Fasihuddin)
Under Secretary to Government
Electrical Department.

mab.2)

GOVERNMENT OF MYSORE.

Telepnone No.
Telegraphic Address: "GOMED"
In Reply Refer to
No. G./17.57
Enclo.
Codes Used:
BENTLEY'S LIEBER'S
A. B. C. 6th EDITION
BUSINESS TELEGRAPH CODE

MYSORE GOVERNMENT SECRETARIAT
PUBLIC WORKS BRANCH

1401

OFFICE OF THE
CHIEF ENGINEER, HYDRO-ELECTRIC
CONSTRUCTION PROJECTS,
POST BAG NO. 60,
RACE COURSE CROSS ROAD,
Bangalore-1, 17th March 1960.
(Mysore, S. India)

MYSORE GOVERNMENT SECRETARIAT
19 MAR 1960
2587
ELECTRICAL BRANCH

The Secretary to Government,
P.W. & Electricity Department,
BANGALORE.

S i r,

Sub: Tungabhadra Hydro-Electric Proj
(Left Bank), Munirabad - Naval Team -
Loaning.

In inviting reference to Memo No. PWD 52 TBE 58 dated 18th November 1959 from the Under Secretary to the Government of Mysore, Electrical Department, Bangalore, I write to request you kindly to remind the Secretary to the Government of India, Ministry of Defence, New Delhi, to spare the Naval Team to complete the balance works left in the Munirabad Gates, as there is only one season left over before the commissioning of the units. The repairing of the gates is of an extremely urgent nature and any delay in attending to this work will result in postponement of the commissioning of the Generating Units.

I, therefore, request that a reminder may kindly be sent to the Secretary to the Government of India, Ministry of Defence, New Delhi, to arrange for sparing the services of the Naval Team from the Naval Headquarters with the full equipments, to Munirabad immediately.

Yours faithfully,

M.V. Srinivasa Murthy.

(M.V. Srinivasa Murthy)
CHIEF ENGINEER, H.C.P., I/C.

[ppendix F. G.—1]

SUBJECT Tungabhadra H.E Project (Left Bank) Munirabad — Naval Team — Loaning

Diary No. of letter replied to .....

Mysore Government Secretariat.

( )

the 195 .

Date of issue.....

Signed by.....

List of enclosures .....

Copied by.....

Examined by .....

Section Genl

File No. PWD 52TBE 58

Serial No.

No.

To The Joint Secretary to the Govt. of India, Ministry of Defence, New Delhi

Sir,

I am directed to invite reference to this office D.O. letter No. PWD 52TBE58 dt 1/2/60 on the above subject, and to request you kindly to arrange for the loan of the services of the diving team & equipment for the repairing of the gates as an extremely urgent

WD 01787—GPB—PZS—100,000—10-2-58

(42)

nature & time delays attending
to this work will result
in postponement of the
Commission of the generating
plant units.

Yours truthfully

Mr 4/3

Under Secy to Govt,
Elect Dept.

Copy to the GE Hqrs
for information to his letter
No. G.1757 of 17/3/60.

Mr 7/3

Under Secy to Govt
Elect Dept

17/3

163

GOVERNMENT OF MYSORE

No. PWD 52 TBE 58.

Mysore Government Secretariat,
VIDHANA SOUDHA.

Dated, Bangalore, 22nd March....1960.
Chaitra 2nd Saka Era 1882.

FROM:

The Under *Secretary to the Government of Mysore.*
Electrical Department.

To

The Joint Secretary to the Government of India,
Ministry of Defence,
New Delhi.

Sir,

Subject: Tungabhadra Hydro Electric Project (Left Bank)
Munirabad - Naval Team - Loan of.

- - -

I am directed to invite reference to this office D.O. letter No.PWD 52 TBE 58, dated the 1st February 1960 on the above subject, and to request you kindly to arrange for the loan of the services of the Diving Team and equipment. The repairing of the gate is of an extremely urgent nature and any delay in attending to this work will result in postponement of the commissioning of the generating units.

Yours faithfully,

Sd.(Mohammed Fasihuddin)
Under Secretary to Government
Electrical Department.

Memo No.PWD 52 TBE 58.

Dated Bangalore the 22nd March 1960.

Copy of the above is forwarded to the Chief Engineer, Hydro Electric Construction Projects, Bangalore for information to his letter No.G.1757 dated the 17/18th March 1960.

22/3/60.

(Mohammed Fasihuddin)
Under Secretary to Government
Electrical Department.

mab.3)

(144)

D.O.No.F.25(16)/58/D(N-1)

A.KRISHNASWAMY AIYANGAR,
IAS,
Deputy Secretary.

GOVERNMENT OF INDIA.
MINISTRY OF DEFENCE.

New Delhi,
March , 1960.

My dear Srinivasachar

Please refer to your d.o. letter No.PWD 52 TBE 58, dated the 1st February 1960, regarding the loan of the services of a Naval Diving Team for effecting certain underwater repairs in the Tungabhadra Reservoir.

2. Arrangements are being made for a Naval Diving Team comprising one officer and about six sailors to be made available to Tungabhadra Project authorities in early April 1960. It is requested that the Project authorities should be directed to contact the Commodore-in-Charge, Cochin, for finalisation of the details of the proposed visit of the Naval Diving Team.

3. Incidentally, it may be mentioned that the entire expenditure incurred by the Navy in connection with the Diving operations in question will be recovered from your Government. This may please be confirmed.

Yours sincerely,

(A.Krishnaswamy Aiyangar)

Shri D.K.Srinivasachar, I.A.S.,
Secretary to Govt,
Public Works & Electrical Department,
Mysore Government Secretariat,
Bangalore.

may be transferred to Electrical Section
31/3/60

145

GOVERNMENT OF MYSORE

No. PWD 52 TBE 58.

Mysore Government Sacretariat,
VIDHANA SOUDHA.
Dated, Bangalore, 2nd April, 1960.
Chaitra, S.E. 1882.

FROM

The Under *Secretary to the Government of Mysore.*
Electrical Department.

To

The Deputy Secretary to the Govt. of India,
Ministry of Defence,
New Delhi.

Sir,

Sub:- Tungabhadra Hydro-Electric Project (Left Bank),
Munirabad - Naval Team - Loaning.

I am directed to acknowledge the receipt of your D.O.letter No.F.25(16)/-58/D(N-1) dated nil, March 1960 addressed to the Secretary to Government, Public Works & Electrical Department, on the above subject, and to confirm that the entire expenditure incurred by the Navy in connection with the Diving operations in question will be met by this Government.

Yours faithfully,

Sd/-

(Mohamed Fasihuddin)
Under Secretary to Government,
Electrical Department.

Memo No.PWD 52 TBE 58.

Bangalore, dated the 2nd April 1960.

Copy of the above together with a copy of the letter referred to above is forwarded to the Chief Engineer, Hydro-Electric Construction Projects, Bangalore, for immediate further action.

(Mohamed Fasihuddin),
Under Secretary to Government,
Electrical Department.

ks.3.

Copy of ~~xx~~ D.O.letter No.F.25(16)/58/D(N-1) dated nil, March 1960 from the Deputy Secretary to Govt. of India, Ministry of Defence, addressed to the Secretary to Govt. P.W.& Elecl.Dept.,Bangalore.

~~Xxkx~~

Please refer to your d.o.letter No.PWD 52 TBE 58, dated the 1st February 1960, regarding the loan of the services of a Naval Diving Team for effecting certain underwater repairs in the Tungabhadra Reservoir.

2. Arrangements are being made for a Naval Diving Team comprising one officer and about six sailors to be made available to Tungabhadra Project authorities in early April 1960. It is requested that the Project authorities should be directed to contact the Commodore-in-charge, Cochin, for finalisation of the details of the proposed visit of the Naval Diving Team.

3. Incidentally, it may be mentioned that the entire expenditure incurred by the Navy in connection with the Diving operation in question will be recovered from your Govt. This may please be confirmed.

"Copy".

Superintendent,
Electrical Department.

ks.

PWD

T 1126 on 27/1/60

14/4/60

No.TR/5081/NHQ/2061/D(N-II)
Government of India,
Ministry of Defence,
New Delhi, the 17th March, 1960.
PHALGUNA 27, 1881(Saka)

The Chief Secretary,
Government of Mysore,
BANGALORE.

Subject:- Training of Electrical Personnel of Mysore Government in Diving Operations.

Sir,

I am directed to refer to para 1 of this Ministry's letter No.TR/5081/NHQ/451/D(N-II) dated 25/1/60 on the above subject and to inform you that due to Navy's own commitments it has been decided to postpone Diver 3 Course from 14th March to 4th April, 1960.

Yours faithfully,

(N.NARAYANASWAMI)
for Under Secretary to the Govt. of India.

REGISTRAR,
G.A.D.

1681

Letter No.TR/5081/NHQ/2061/D(N-II), dated the 17th March 1960 from the Under Secretary to the Government of India, Ministry of Defence, New Delhi to the Chief Secretary, Government of Mysore, Bangalore.

------:O:------

Subject: Training of Electrical Personnel of Mysore Government in Diving Operations.

I am directed to refer to para 1 of this Ministry's letter No.TR/5081/NHQ/451/D(N-II), dated the 25th January 1960 on the above subject and to inform you that due to Navy's own commitments it has been decided to postpone Diver 3 Course from 14th March to 4th April 1960.

Memo No.PWD 52 TBE 58.

Dated Bangalore the 21st April 1960.

Copy of the above is forwarded to the Chief Engineer, Hydro Electric Construction Projects, Bangalore for information.

21/4/60

(Mohammed Fasihuddin)
Under Secretary to Government
Electrical Department.

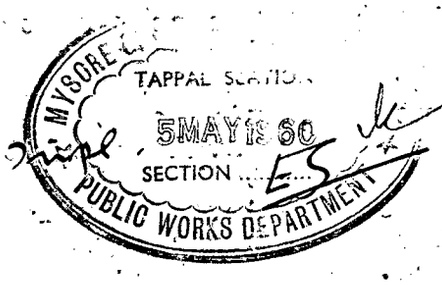
mab.2)

GOVERNMENT OF MYSORE

(49)

Telephone 5465
6841
6842

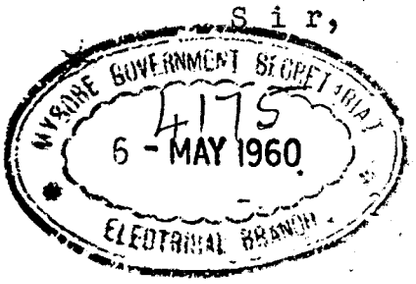
Telegraphic Address : "GOMED"
In Reply Refer to
No. E/168
Encls.
Codes Used
BENTLEY'S LIEBER'S
A. B. C. 6th EDITION
BUSINESS TELEGRAPH CODE



OFFICE OF THE
CHIEF ENGINEER, HYDRO-ELECTRIC
CONSTRUCTION PROJECTS,
POST BAG No. 60,
RACE COURSE CROSS ROAD,
Bangalore-1, 7th April 1960.
(Mysore, S. India)

The Secretary to the Government of Mysore,
Public Works & Electrical Department,
B A N G A L O R E. 1.

S i r,



Sub: Training of Electrical Personnel of Mysore Government in Diving Operations.

Ref: Letter No.TR5081/NHQ/451/D (N-II) dated 25th January 1960 from the Deputy Secretary to the Government of India, Ministry of Defence, New Delhi, to the Chief Secretary to the Government of Mysore, Bangalore.

Your Memo No.PWD 915/E1/60 dt.30-1-1960.

With reference to the above, I write to furnish below my notes and remarks against the terms and conditions for the training of two civilians of this department at the Naval Diving School, INS. Vendurthy, Cochin, for your kind information and for obtaining sanction of Government.

	CONDITIONS	REPLIES
(a)	Due to the Hazardous nature of the course, Indian Navy will not accept any liability in case of injury or death.	The Government will have to agree to bear the liabilities in case of injury or death on account of the hazardous nature of the course. The liabilities may be recommended to be paid in accordance with the provisions in M.C.S.R. 1958.
(b)	The navy may terminate the course at any time, should the trainee be temperamentally or physically unsuitable for the duties or his conduct or behaviour necessitate his removal.	These will be borne in mind while selecting candidates for training.
(c)	The trainees will be provided messing and accommodation facilities in the above-mentioned establishment.	The trainees will have to avail of the facilities provided for messing and accommodation by the Naval Establishment.
(d)	The cost of training	

P.T.O.

(d)	The cost of training including messing and accommodation charges will be worked out on completion of the course and the State Government would be liable to meet the entire expenditure.	The cost of training including messing and accommodation charges worked out on completion of the course by the Naval authorities would have to be paid by the State Government in addition to their pay and allowances as otherwise it will be hard on the selected candidates.
(e)	The trainees will be included in Diving 3 Course duration of which is 13 weeks.	The training period will have to be sanctioned for a period of 13 to 15 weeks as the course may have to be extended beyond 13 weeks.
(f)	Diving 3 course is not for training in diving only but also caters for familiarisation with the equipment they will use. If your Government desire to send the equipment to Diving School for familiarisation of the trainees and instructions on their use, the course may have to be extended by about 2 weeks.	The diving equipment has already been procured and the details will be furnished to the Naval authorities. The Diving Course has therefore, to be extended by about 2 weeks as recommended in the above para.
(g)	Any loss on account of mishandling of the Naval instruments equipment by the trainees will be made good by the Mysore Government.	The loss, if any sustained on account of mishandling of the naval instruments and equipments by the trainees will have to be made good by the Government of Mysore in the first instance as required by the Naval authorities. However, subsequent detailed enquiry will be instituted with the help of the Naval authorities to fix responsibility and suitable action will be taken on the report.
2.	I am to request acceptance of your Government to the above mentioned terms. Necessary instructions to the Commodore-in-charge, Cochin for the training of your trainees in diving will be issued on receipt of the acceptance.	The Government may be requested to accept the above mentioned terms. After obtaining sanction of Government the Chief Engineer Electricity, Mysore State Electricity Board, Bangalore, will be addressed to select suitable hands among the permanent staff in the grade recommended in the statement attached. The candidates selected will be interviewed by the Superintending Engineer(Electrical), Hydro-Electric Construction Project Munirabad and myself to ascertain the suitability of the candidates for training. After the final selection the Commodore-in-Charge, Cochin Naval Base will be

(Continued)

154)

addressed by me to intimate when it would be convenient to interview the candidates for inclusion in the next course for training.

3. I am further to request that the following information may please be forwarded:-

(a) Details of particular type of work the divers will be required to perform after completion of their training.	The Divers will have to go under water when defects are noticed in the sills and side frames of the gates and seals of the gates at the dam of Tungabhadra Hydro-Electric Project (Left Bank) They will be skilled men capable of carrying out repairs under water.
(b) Details of equipment which are being procured from U.K. on which the divers are to work.	This information will be furnished to the Commodore-in-Charge at the time of deputation, on communication of Government Sanction.
I am to add that the trainees should preferably be below 28 Yrs. of age. They must, however, be medically fit for the diving training. Enclosure to this letter contains the medical standard for them. It is re recommended that after carrying out the preliminary medical examination locally, the trainees should be sent to INS. VENDURTHY Cochin for a further through medical examination at least a month before the commencement of training in order that the person who is not found medically fit can be replaced by another.	The trainees selected will be within 28 years of age and suitable for training in diving. The selected candidates will be sent at least a month before commencement of the course, for medical examination, to INS. Venduruthy, Cochin, at the expense of this department, and they will be paid the admissible T.A., as per MCSR 1958. Care will be taken in selecting the candidates in respect of physical fitness temparament and etc. However, in the event of their failure to come up to the expectations of the Naval authorities fresh candidates will be selected and the loss incurred thereof will be charged to the expenditure Head to which the entire training charges are to be debited.

I am enclosing herewith a statement of establishment for the creation and sanction of the posts of two divers for Hydro-Electric Construction Project, Munirabad establishment in grade Rs.70-5-125 with Project allowance of 10%. In addition I am also recommending the following in view of the special training and the hazardous nature of duties they will have to be interested with.

P.T.O.

150

The selected candidates on return from the training in diving will be paid diving allowance of Rs.1/- per hour while on diving duty, in addition to their pay and allowances.

During their period of training they may be recommended for the following concessions:-

1. They will be granted the messing and lodging allowance as recommended by the Naval Authorities in addition to their pay and allowances in the state.

2. They will be paid T.A. and daily allowances as on tour in accordance with the M.C.S.R. 1958, for the journey to Cochin and Back for their interview and medical examination prior to their selection for training as is required by the Naval authorities.

3. They will be paid T.A. in accordance with M.C.S.R. 1958 for their journey to Cochin and back for their training as on tour.

The entire cost of training and onwards will be met out of the provision of 31 lakhs made under the revised estimate for Tungabhadra, Hydro-Electric Project (Left Bank) sanctioning G.O. No.PWD 9 ETB 59 dated 25-9-1959.

I, therefore, request you kindly to obtain and communicate sanction of Government for the acceptance of the terms and conditions of the Naval Establishment as per my note sanction of allowances and for the creating of the two posts of Divers in grade Rs.75-125 and for the deputation for training in Diving to I.N.S. VENDURUTHY, Cochin, for period of 13 to 15 weeks.

Yours faithfully,

H.V.Narayana Rao 4/5

(H.V.Narayana Rao)
CHIEF ENGINEER, HCP.

GOVERNMENT OF MYSORE

155

ELECTRICAL DEPARTMENT

Statement of Establishment for 2 Divers for Hydro-Electric Construction Project, Munirabad.

Designation	Grade	No.	Average pay	D.A.	C.A.	Project allowance 10%	Other allowances	Total.
I-Class Maistries	70-5-125	2	206.00	80.00	..	20.60	..	306.60
Total per month:			206.00	80.00	..	20.60	..	306.60
Total per year:			2,472.00	960.00	..	247.20	..	3,679.20

ACCOUNTS OFFICER
H.R.C.P.

DEPUTY CHIEF ENGINEER
H.E.C.P.

CHIEF ENGINEER
H.L.C.P.

HS/-

153/

GOVERNMENT OF MYSORE ELECTRICAL DEPARTMENT

Statement of Establishment for 2 Divers for Hydro-Electric Construction Project, Munirabad.

Designation	Grade	No.	Average pay	D.A.	C.A.	Project allowance 10%	Other allowances	Total.
I-Class Maistries	70-5-125	2	206.00	80.00	..	20.60	..	306.60
Total per month:			206.00	80.00	..	20.60	..	306.60
Total per year:			2,472.00	960.00	..	247.20	..	3,679.20

A L Govindaraj
ACCOUNTS OFFICER
H.E.C.P.

DEPUTY CHIEF ENGINEER
H.E.C.P.

H N Narayana Rao
CHIEF ENGINEER
H.E.C.P.

HS/-

153)

GOVERNMENT OF MYSORE

ELECTRICAL DEPARTMENT

Statement of Establishment for 2 Divers for Hydro-Electric Construction Project, Munirabad.

Designation	Grade	No.	Average pay	D.A.	C.A.	Project allowance 10%	Other allowances	Total.
I-Class Maistries	70-5-125	2	206.00	80.00	..	20.60	..	306.60
Total per month:			206.00	80.00	..	20.60	..	306.60
Total per year:			2,472.00	960.00	..	247.20	..	3,679.20

ACCOUNTS OFFICER
H.E.C.P.

DEPUTY CHIEF ENGINEER
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CHIEF ENGINEER
H.E.C.P.

HS/-

M. G. S. App. F VI—G. 2]

SUBJECT Training of Electrical personnel of Mysore Govt - in Diesel operations

Diary No. of letter replied to.....

Section Elect

Serial No.

File No. PWD 52 TBE 58.

Mysore Government Secretariat

( )

the 195 .

Proceedings of the Government of Mysore

Read— 1) Letter No TR-5081/NHA/65-7/DC(N-II) dated — from the [illegible]

2) Letter No Q.168 dated the 5th May 1960 from the CO. HCP

Date of issue.....for.....195

Signed by.....

1) Letter No TR-5081/NHA/65-7/DC(N-II) dated — from the [illegible] asking for the training of 2 persons of Mysore Govt as per further details of terms & conditions of Training

2) Letter No Q.168 dated the 5th May 1960 from the CO. HCP

The CO. HCP has offered his remarks on the terms & conditions for the training of two Electricians of the Mysore Govt at the Naval School, INS. Venduruthy Cochin and has forwarded a statement accompanying Establishment for the creation & sanction

May this be—

(i) printed?
(ii) treated as a Standing Order?
(iii) published in the Gazette, English Part?
(iv) translated?
(v) placed at the disposal of the Press?
(vi) published in the Gazette, Kannada Part?

Order thereon.—No.

as per copy

1.57

Q the costs & two drawn
for A.T.C.P. Some initial
establishment in Grade
Rs 26-5-125 with the usual
allowance @ 10 per cent.
In addition the GS HCP
has recommended the creation
of the Regional Planner
& the Transportation Planner
Q during Xing will have to
be entrusted with --

- as in Annexure
2 & 15 &

List of Enclosures.

The initial cost of Town
Planners is the usual
Rs 2 lakhs each & the Civil
& Rs 1 lakh each - the
the total estimate is
Rs 6 lakhs (say 6 lacs)

Copied by

Examined by

WD-05449-GPB—P.Z.S.— 90,000—20-9-56.

M. G. S. App. F. G. 3]

MYSORE GOVERNMENT

SECRETARIAT.

(Continuation sheet draft form).

sanctioned in G.O.No. RD 9 ETB 59, dt 25/9/59. The Govt. HC request sanction of Govt. for the acceptance of the terms & conditions of the Naval establishment, sanction of allowances & for the creation of the two posts of divers in grade Rs. 70-125 & for the deputation for training in Diving to I.N.S. Venduruthy, Cochin for a period of 13 to 15 weeks.

Order No. RD 59 TBE 58 dt June 1960 and proposals of the Govt. HC are

WD 01695—GPB—PZS—1,00,000—25-8-59

Appointments to be
given :-

1) To 11) inclusive
123 of notes.

Ord. By order etc.

Temporary Sec. Lieut.
Lieut.

To 14/6

The Lord High
(The A.G. Kingsmill (Hon. Col.)